

# 1999

## Percent of Responses by Item Category for the Mathematics Items

### MAIN SURVEY

Third International Mathematics and Science Study Repeat

# TIMSS



TIMSS International Study Center  
BOSTON COLLEGE  
Chestnut Hill, MA USA

December 5, 2000

Mathematics: Fractions and Number Sense  
 Label: Number of squares in shaded fraction ( M012001 - A01 )  
 Item Type = MC Key = A

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	4019	67.7	3.4	4.4	8.5	15.6	0.4	67.7	0.1	0.0	0.3	66.1	69.4
Belgium (Flemish)	5256	85.5	2.1	1.9	3.8	6.4	0.3	85.5	0.0	0.0	0.3	84.4	86.5
Bulgaria	3270	66.0	5.4	6.4	9.0	10.4	2.8	66.0	0.2	0.1	2.6	64.7	67.3
Canada	8740	71.4	2.8	4.0	7.6	13.9	0.3	71.4	0.0	0.1	0.3	69.4	73.4
Chile	5862	18.3	3.8	7.0	23.8	42.0	5.1	18.3	0.0	0.0	5.0	16.3	20.3
Chinese Taipei	5772	78.4	2.4	5.8	4.9	8.5	0.1	78.4	0.0	0.0	0.0	78.9	77.8
Cyprus	3109	60.2	7.9	7.5	10.5	13.0	0.9	60.2	0.2	0.0	0.8	58.5	61.8
Czech Republic	3414	54.5	5.6	7.4	12.9	18.2	1.5	54.5	0.1	0.0	1.4	50.9	58.3
England	2946	58.7	2.7	4.7	12.7	20.7	0.4	58.7	0.1	0.0	0.3	54.3	62.9
Finland	2916	72.3	2.8	4.4	8.0	11.9	0.7	72.3	0.0	0.0	0.7	72.0	72.6
Hong Kong, SAR	5176	86.3	2.0	3.0	2.7	5.9	0.2	86.3	0.1	0.0	0.1	86.0	86.5
Hungary	3178	67.2	2.8	4.2	10.9	12.7	2.3	67.2	0.2	0.0	2.1	65.9	68.4
Indonesia	5847	24.6	7.8	20.8	17.9	27.4	1.5	24.6	0.1	0.0	1.4	24.3	24.9
Iran, Islamic Rep.	5291	47.2	4.4	5.5	15.3	25.5	2.1	47.2	0.0	0.1	2.0	41.3	51.3
Israel	4191	49.1	8.5	7.2	13.5	17.8	3.9	49.1	0.1	0.4	3.4	44.7	53.6
Italy	3328	48.5	5.0	6.7	12.5	25.2	2.0	48.5	0.0	0.0	2.0	44.4	52.8
Japan	4735	79.6	2.5	4.8	5.3	7.7	0.2	79.6	0.0	0.0	0.1	80.4	78.9
Jordan	5040	38.5	7.4	10.2	18.0	24.4	1.5	38.5	0.4	0.0	1.1	35.6	41.1
Korea, Rep. of	6113	80.4	1.6	3.3	4.7	9.8	0.1	80.4	0.0	0.0	0.1	79.7	81.2
Latvia (LSS)	2870	56.2	4.6	7.0	12.8	17.4	2.0	56.2	0.3	0.0	1.7	52.0	60.7
Lithuania	2359	40.4	8.4	8.0	16.9	21.5	4.8	40.4	0.0	0.0	4.8	39.3	41.7
Macedonia, Rep. of	4022	42.2	3.7	6.8	19.8	24.0	3.5	42.2	0.3	0.0	3.2	41.2	43.2
Malaysia	5577	72.5	3.6	4.1	8.1	11.3	0.5	72.5	0.0	0.0	0.5	73.6	71.1
Moldova	3711	53.3	7.1	9.9	14.0	14.4	1.4	53.3	0.1	0.0	1.3	52.2	54.6
Morocco	5384	19.7	17.3	20.2	19.1	16.9	6.8	19.7	1.1	0.0	5.7	20.2	19.2
Netherlands	2957	75.1	2.6	3.3	5.8	12.6	0.7	75.1	0.0	0.0	0.7	72.0	78.4
New Zealand	3603	57.3	2.9	6.3	12.5	20.4	0.5	57.3	0.2	0.0	0.3	57.4	57.2
Philippines	6599	22.3	6.2	37.8	10.4	22.5	0.7	22.3	0.0	0.0	0.7	23.5	21.0
Romania	3425	53.8	6.0	8.8	13.4	16.3	1.6	53.8	0.5	0.0	1.1	53.0	54.6
Russian Federation	4331	62.2	3.9	5.3	12.2	14.2	2.1	62.2	0.1	0.0	2.0	61.5	63.0
Singapore	4966	87.5	1.4	2.1	3.2	5.5	0.3	87.5	0.0	0.0	0.3	87.7	87.4
Slovak Republic	3490	59.1	4.4	6.7	12.3	15.5	2.0	59.1	0.0	0.0	2.0	57.5	60.8
Slovenia	3104	66.9	3.3	5.2	9.4	14.6	0.6	66.9	0.0	0.0	0.6	66.7	67.1
South Africa	8124	13.7	6.2	44.4	10.0	23.6	2.1	13.7	0.6	0.2	1.4	13.1	14.4
Thailand	5732	46.0	4.0	9.2	17.5	22.8	0.4	46.0	0.0	0.0	0.4	45.7	46.5
Tunisia	5037	35.1	7.6	10.8	17.8	23.1	5.6	35.1	1.3	0.0	4.2	30.9	39.5
Turkey	7838	40.6	5.1	7.5	21.0	24.8	0.9	40.6	0.0	0.0	0.9	37.2	43.0
United States	8985	57.2	3.3	6.6	11.4	21.2	0.3	57.2	0.0	0.0	0.3	53.2	61.2
International Avg.	.	55.7	4.8	8.7	11.8	17.4	1.7	55.7	0.2	0.0	1.5	54.1	57.2

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Algebra  
 Label: Objects balanced on scale ( M012002 - A02 )  
 Item Type = MC Key = C

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	4019	4.4	12.2	79.8	3.1	0.5	79.8	0.0	0.0	0.5	78.2	81.5
Belgium (Flemish)	5256	4.4	9.2	83.2	2.7	0.5	83.2	0.3	0.0	0.3	82.5	83.9
Bulgaria	3271	2.3	6.9	85.9	3.5	1.3	85.9	0.4	0.1	0.9	85.5	86.5
Canada	8740	4.2	12.7	79.1	3.6	0.4	79.1	0.1	0.1	0.2	77.7	80.6
Chile	5862	13.2	27.8	50.4	5.7	2.9	50.4	0.0	0.1	2.8	46.7	54.2
Chinese Taipei	5772	4.4	15.0	77.6	2.7	0.3	77.6	0.0	0.0	0.2	76.0	79.3
Cyprus	3111	7.3	17.4	70.4	4.4	0.6	70.4	0.1	0.0	0.4	70.2	70.5
Czech Republic	3414	5.1	7.4	82.5	4.2	0.7	82.5	0.1	0.0	0.6	78.3	87.1
England	2946	6.0	13.3	77.5	3.0	0.2	77.5	0.0	0.0	0.1	74.0	80.9
Finland	2916	2.8	9.3	83.4	3.7	0.7	83.4	0.0	0.0	0.7	82.7	84.1
Hong Kong, SAR	5176	4.3	13.2	80.1	2.2	0.2	80.1	0.0	0.0	0.1	79.3	80.8
Hungary	3178	3.9	10.9	81.3	2.6	1.3	81.3	0.4	0.1	0.8	79.6	83.1
Indonesia	5847	20.4	27.8	47.3	3.6	0.9	47.3	0.0	0.0	0.9	43.8	50.8
Iran, Islamic Rep.	5291	6.8	15.6	69.6	6.3	1.8	69.6	0.0	0.1	1.7	63.6	73.6
Israel	4191	7.8	19.5	65.9	4.2	2.6	65.9	0.1	0.4	2.1	63.8	68.1
Italy	3328	6.1	11.8	76.8	4.2	1.0	76.8	0.0	0.0	1.0	75.5	78.2
Japan	4735	2.1	10.5	84.9	2.4	0.1	84.9	0.0	0.0	0.1	83.7	86.1
Jordan	5040	9.0	20.2	64.5	5.5	0.7	64.5	0.2	0.0	0.6	63.5	65.4
Korea, Rep. of	6112	2.0	12.2	83.4	2.3	0.1	83.4	0.0	0.0	0.0	83.1	83.7
Latvia (LSS)	2870	3.0	9.8	83.3	3.1	0.8	83.3	0.4	0.0	0.4	82.0	84.7
Lithuania	2359	4.0	10.4	78.6	5.7	1.2	78.6	0.0	0.0	1.2	77.5	79.8
Macedonia, Rep. of	4022	4.3	15.8	73.0	5.0	2.0	73.0	0.2	0.0	1.8	71.2	74.6
Malaysia	5577	7.9	13.5	74.4	3.6	0.6	74.4	0.0	0.0	0.6	72.3	77.0
Moldova	3709	5.2	10.9	77.8	5.5	0.6	77.8	0.0	0.0	0.5	75.2	80.8
Morocco	5381	10.0	25.8	48.3	11.5	4.4	48.3	1.5	0.0	2.9	45.2	50.4
Netherlands	2957	2.0	8.5	85.9	3.1	0.5	85.9	0.0	0.0	0.5	85.1	86.9
New Zealand	3603	5.5	14.7	75.9	3.6	0.3	75.9	0.1	0.0	0.2	75.6	76.2
Philippines	6599	23.9	40.7	31.8	3.0	0.6	31.8	0.1	0.0	0.5	31.3	32.4
Romania	3424	5.9	15.1	73.2	5.1	0.8	73.2	0.3	0.0	0.4	74.0	72.3
Russian Federation	4331	2.2	6.9	87.7	2.3	0.9	87.7	0.1	0.0	0.7	87.4	88.1
Singapore	4966	2.7	10.2	85.0	1.9	0.2	85.0	0.1	0.0	0.2	84.9	85.2
Slovak Republic	3489	2.7	7.2	85.9	3.6	0.6	85.9	0.1	0.0	0.5	85.1	86.7
Slovenia	3104	2.2	9.2	83.8	4.4	0.3	83.8	0.1	0.0	0.2	82.5	85.2
South Africa	8124	20.0	41.2	29.8	7.9	1.0	29.8	0.2	0.2	0.7	27.4	32.5
Thailand	5731	16.9	25.1	54.9	2.7	0.3	54.9	0.0	0.0	0.3	51.8	58.7
Tunisia	5039	7.0	16.0	69.5	4.6	3.0	69.5	1.2	0.1	1.7	66.3	72.8
Turkey	7838	14.1	23.2	57.1	4.7	0.9	57.1	0.0	0.0	0.9	53.7	59.6
United States	8985	6.8	14.2	73.4	5.4	0.3	73.4	0.0	0.0	0.2	71.4	75.3
International Avg.	.	6.9	15.6	72.4	4.1	0.9	72.4	0.2	0.0	0.7	70.7	74.1

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Measurement  
 Label: Actual length of box from rounded measure ( M012003 - A03 )  
 Item Type = MC Key = D

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	4019	10.2	9.6	4.5	75.2	0.5	75.2	0.2	0.0	0.3	74.1	76.3
Belgium (Flemish)	5256	4.5	5.2	4.4	85.1	0.8	85.1	0.5	0.0	0.4	86.9	83.3
Bulgaria	3271	38.2	8.2	5.5	40.1	7.8	40.1	5.0	0.1	2.8	39.7	40.6
Canada	8740	14.3	7.9	5.0	72.3	0.5	72.3	0.2	0.1	0.3	72.7	72.0
Chile	5862	34.0	17.6	10.5	33.8	4.1	33.8	0.0	0.1	4.0	32.0	35.5
Chinese Taipei	5772	6.0	8.0	4.8	81.1	0.1	81.1	0.0	0.0	0.1	82.3	79.9
Cyprus	3105	21.5	29.4	11.7	34.6	2.7	34.6	0.1	0.0	2.7	34.5	34.7
Czech Republic	3450	2.8	3.0	1.8	92.0	0.4	92.0	0.1	0.0	0.3	90.9	93.2
England	2946	12.2	8.8	4.0	73.5	1.4	73.5	1.1	0.0	0.3	71.3	75.6
Finland	2916	9.1	4.3	3.0	82.5	1.1	82.5	0.0	0.0	1.1	83.1	81.9
Hong Kong, SAR	5176	3.6	5.2	4.4	86.6	0.2	86.6	0.0	0.0	0.2	86.1	87.1
Hungary	3178	2.7	3.0	2.3	91.3	0.6	91.3	0.2	0.1	0.3	91.4	91.4
Indonesia	5848	31.7	25.9	8.2	31.6	2.5	31.6	0.0	0.0	2.5	32.1	31.2
Iran, Islamic Rep.	5289	39.1	30.7	11.1	13.6	5.5	13.6	0.0	0.1	5.4	11.7	15.0
Israel	4191	20.4	13.9	10.5	51.6	3.6	51.6	0.2	0.4	3.0	49.0	54.3
Italy	3328	24.6	9.8	9.5	54.6	1.4	54.6	0.0	0.0	1.4	54.4	54.9
Japan	4735	12.8	7.9	14.2	64.3	0.8	64.3	0.1	0.0	0.7	64.0	64.6
Jordan	5049	19.8	16.9	10.5	51.4	1.4	51.4	0.3	0.0	1.1	51.9	50.8
Korea, Rep. of	6113	2.3	2.6	2.6	92.3	0.1	92.3	0.0	0.0	0.1	93.1	91.6
Latvia (LSS)	2869	13.7	8.6	11.8	64.7	1.1	64.7	0.2	0.0	0.9	65.2	64.2
Lithuania	2359	66.3	10.5	5.4	14.9	2.8	14.9	0.1	0.0	2.7	14.6	15.3
Macedonia, Rep. of	4022	17.8	15.6	9.2	53.6	3.8	53.6	0.1	0.0	3.7	54.3	52.9
Malaysia	5577	17.7	8.8	5.7	67.0	0.8	67.0	0.0	0.0	0.7	69.5	64.1
Moldova	3710	18.0	16.0	7.1	56.8	2.0	56.8	0.1	0.0	1.9	58.9	54.5
Morocco	5385	40.4	28.6	13.3	12.4	5.4	12.4	0.6	0.1	4.8	11.8	12.8
Netherlands	2957	3.1	4.1	3.2	89.0	0.6	89.0	0.2	0.0	0.3	89.5	88.4
New Zealand	3603	16.8	11.9	6.1	64.3	0.9	64.3	0.4	0.0	0.4	66.4	62.2
Philippines	6598	32.4	30.7	11.6	24.5	0.9	24.5	0.0	0.0	0.9	25.8	23.0
Romania	3425	13.6	18.5	7.4	59.2	1.4	59.2	0.3	0.0	1.0	59.8	58.6
Russian Federation	4332	5.6	7.2	4.2	81.3	1.7	81.3	0.4	0.0	1.3	82.2	80.4
Singapore	4966	4.6	3.5	2.3	89.5	0.2	89.5	0.0	0.0	0.2	90.5	88.5
Slovak Republic	3491	4.1	4.5	2.0	89.1	0.4	89.1	0.1	0.0	0.3	90.1	88.1
Slovenia	3104	18.2	7.6	10.6	60.8	2.8	60.8	1.6	0.0	1.3	62.4	59.1
South Africa	8124	46.4	30.7	8.9	12.5	1.5	12.5	0.2	0.2	1.1	11.3	13.8
Thailand	5732	30.2	14.9	9.2	45.2	0.5	45.2	0.0	0.0	0.5	46.7	43.5
Tunisia	5047	49.2	15.8	11.7	17.9	5.5	17.9	1.1	0.1	4.4	17.4	18.4
Turkey	7838	19.2	14.9	11.0	54.0	0.9	54.0	0.0	0.0	0.9	50.3	56.7
United States	8985	18.6	11.8	6.7	62.4	0.5	62.4	0.1	0.0	0.3	61.7	63.1
International Avg.	.	19.6	12.7	7.3	58.6	1.8	58.6	0.4	0.0	1.4	58.7	58.5

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Fractions and Number Sense  
 Label: Laps run by Carol and Alice from ratio ( M012004 - A04 )  
 Item Type = MC Key = D

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	4019	14.8	6.9	21.0	56.9	0.3	56.9	0.1	0.0	0.2	50.4	63.7
Belgium (Flemish)	5256	12.4	2.9	11.4	72.9	0.5	72.9	0.0	0.0	0.5	68.8	76.9
Bulgaria	3271	9.7	7.9	25.9	54.7	1.8	54.7	0.1	0.1	1.6	51.4	58.1
Canada	8740	13.8	6.8	20.7	58.5	0.2	58.5	0.0	0.1	0.1	52.2	65.0
Chile	5862	10.8	12.1	44.8	31.0	1.3	31.0	0.0	0.1	1.1	25.5	36.6
Chinese Taipei	5772	12.0	7.5	16.4	64.0	0.1	64.0	0.0	0.0	0.0	60.3	67.7
Cyprus	3114	15.4	10.1	27.3	46.7	0.5	46.7	0.0	0.0	0.5	39.3	53.9
Czech Republic	3450	6.9	6.0	30.3	56.6	0.2	56.6	0.0	0.0	0.2	47.0	66.8
England	2946	12.5	10.8	31.9	44.6	0.3	44.6	0.0	0.0	0.2	33.3	55.3
Finland	2916	6.7	3.7	29.8	59.4	0.4	59.4	0.0	0.0	0.4	48.7	70.2
Hong Kong, SAR	5176	17.5	5.2	10.3	66.7	0.3	66.7	0.1	0.0	0.2	64.1	69.3
Hungary	3178	8.6	8.9	33.3	48.7	0.6	48.7	0.0	0.1	0.5	40.7	56.5
Indonesia	5848	12.6	6.9	43.1	36.9	0.6	36.9	0.0	0.0	0.6	36.6	37.2
Iran, Islamic Rep.	5289	13.4	8.4	23.5	53.0	1.8	53.0	0.0	0.1	1.7	47.8	56.5
Israel	4191	13.3	9.4	26.3	49.6	1.4	49.6	0.0	0.4	0.9	41.4	58.1
Italy	3328	12.6	12.5	35.6	38.5	0.7	38.5	0.0	0.0	0.7	30.8	46.5
Japan	4735	3.2	2.2	22.6	71.9	0.1	71.9	0.0	0.0	0.0	64.1	79.5
Jordan	5049	16.6	9.3	22.3	50.4	1.4	50.4	0.2	0.0	1.2	47.1	53.3
Korea, Rep. of	6113	25.2	7.8	13.8	53.1	0.1	53.1	0.0	0.0	0.1	51.2	55.0
Latvia (LSS)	2869	9.2	7.1	30.9	52.3	0.5	52.3	0.1	0.0	0.4	41.1	64.0
Lithuania	2359	10.7	8.1	27.1	53.2	0.9	53.2	0.0	0.0	0.9	45.7	61.2
Macedonia, Rep. of	4022	15.0	7.7	31.0	43.7	2.7	43.7	0.2	0.1	2.4	40.1	47.1
Malaysia	5577	9.2	4.6	37.9	47.9	0.3	47.9	0.0	0.0	0.3	44.4	52.1
Moldova	3708	8.9	7.3	41.5	41.3	1.0	41.3	0.0	0.0	0.9	37.4	45.9
Morocco	5386	12.8	16.9	35.6	31.2	3.5	31.2	0.8	0.1	2.7	28.1	33.4
Netherlands	2957	13.3	4.0	11.7	70.7	0.3	70.7	0.0	0.0	0.2	68.0	73.7
New Zealand	3603	12.0	9.2	30.4	47.9	0.5	47.9	0.1	0.0	0.4	41.2	54.3
Philippines	6598	16.2	10.0	26.9	46.1	0.9	46.1	0.1	0.0	0.7	45.6	46.7
Romania	3424	17.9	11.8	26.2	42.7	1.4	42.7	0.2	0.0	1.2	40.5	45.0
Russian Federation	4332	4.2	4.5	32.5	57.6	1.2	57.6	0.1	0.1	1.0	49.8	66.0
Singapore	4966	8.4	2.5	13.6	75.4	0.1	75.4	0.0	0.0	0.1	72.3	78.4
Slovak Republic	3491	7.5	4.2	22.8	64.8	0.7	64.8	0.1	0.0	0.6	61.1	68.7
Slovenia	3104	12.5	7.3	26.2	53.3	0.7	53.3	0.1	0.0	0.7	44.3	62.9
South Africa	8124	13.0	9.0	21.2	54.7	2.1	54.7	0.2	0.3	1.5	55.8	53.4
Thailand	5732	9.0	8.7	37.2	44.8	0.2	44.8	0.0	0.0	0.2	41.6	48.7
Tunisia	5047	11.3	7.2	27.5	52.3	1.7	52.3	0.3	0.1	1.3	46.4	58.4
Turkey	7838	8.4	6.3	35.8	48.4	1.0	48.4	0.0	0.0	1.0	42.3	52.9
United States	8985	12.4	8.2	29.0	50.0	0.3	50.0	0.0	0.0	0.3	43.8	56.3
International Avg.	.	11.8	7.6	27.2	52.4	0.9	52.4	0.1	0.0	0.7	47.1	57.8

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Geometry  
 Label: False statement of congruent triangles ( M012005 - A05 )  
 Item Type = MC Key = B

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	4019	9.2	49.4	21.9	16.2	3.3	49.4	0.8	0.0	2.5	49.5	49.2
Belgium (Flemish)	5256	5.2	73.5	10.3	7.8	3.1	73.5	0.6	0.0	2.5	75.8	71.2
Bulgaria	3271	2.5	79.5	7.4	4.2	6.4	79.5	4.6	0.1	1.7	81.1	77.9
Canada	8740	8.6	61.8	16.8	11.2	1.6	61.8	0.8	0.1	0.8	62.7	61.1
Chile	5862	11.5	33.4	30.0	16.8	8.2	33.4	0.0	0.2	8.1	33.8	33.0
Chinese Taipei	5772	5.1	82.4	8.1	4.0	0.3	82.4	0.1	0.0	0.2	84.0	80.9
Cyprus	3108	5.2	75.1	11.4	5.9	2.4	75.1	0.7	0.0	1.7	78.1	72.4
Czech Republic	3450	4.4	73.9	11.1	8.7	1.9	73.9	0.6	0.0	1.3	74.2	73.5
England	2946	11.2	38.0	23.6	22.1	5.2	38.0	1.9	0.0	3.3	37.7	38.2
Finland	2916	8.9	39.5	21.3	23.5	6.8	39.5	0.0	0.0	6.8	38.8	40.3
Hong Kong, SAR	5176	6.5	76.7	10.2	6.2	0.4	76.7	0.0	0.0	0.4	76.6	76.8
Hungary	3178	9.1	35.4	20.3	8.9	26.3	35.4	4.0	0.1	22.2	34.0	36.9
Indonesia	5848	11.1	55.8	19.4	12.9	0.9	55.8	0.0	0.0	0.8	56.4	55.1
Iran, Islamic Rep.	5289	8.3	54.2	18.9	14.5	4.1	54.2	0.0	0.1	4.0	51.5	56.0
Israel	4191	7.8	57.0	15.7	13.5	6.1	57.0	1.1	0.4	4.6	57.0	57.0
Italy	3328	7.7	61.3	16.1	12.7	2.2	61.3	0.0	0.0	2.2	61.6	61.0
Japan	4735	6.2	80.5	5.9	6.5	0.8	80.5	0.7	0.0	0.1	79.6	81.4
Jordan	5049	7.1	60.8	18.6	10.0	3.4	60.8	2.2	0.0	1.3	63.8	58.2
Korea, Rep. of	6113	4.5	85.3	6.2	3.8	0.2	85.3	0.0	0.0	0.1	85.1	85.5
Latvia (LSS)	2869	3.4	83.3	7.0	4.6	1.7	83.3	0.8	0.0	0.9	83.7	82.8
Lithuania	2359	6.7	72.1	11.8	6.6	2.8	72.1	0.0	0.0	2.8	74.4	69.6
Macedonia, Rep. of	4022	7.8	58.1	11.2	11.8	11.1	58.1	5.6	0.1	5.4	60.0	56.1
Malaysia	5577	9.1	49.5	21.1	18.4	2.0	49.5	0.0	0.0	1.9	51.4	47.2
Moldova	3710	7.6	65.7	14.5	9.8	2.3	65.7	0.9	0.0	1.4	65.8	65.6
Morocco	5387	12.8	42.6	22.1	14.0	8.5	42.6	2.3	0.1	6.1	43.1	42.2
Netherlands	2957	7.4	74.2	10.0	7.3	1.1	74.2	0.4	0.0	0.7	77.4	70.6
New Zealand	3603	10.3	41.3	25.0	21.1	2.4	41.3	0.5	0.0	1.8	42.4	40.1
Philippines	6598	13.6	40.2	27.9	17.1	1.2	40.2	0.0	0.0	1.1	42.4	37.8
Romania	3425	5.5	67.7	13.2	8.1	5.6	67.7	3.1	0.0	2.4	68.0	67.3
Russian Federation	4332	3.2	78.5	9.8	5.1	3.5	78.5	1.4	0.1	2.0	80.0	76.8
Singapore	4966	7.2	74.3	10.4	7.7	0.5	74.3	0.1	0.0	0.4	75.1	73.5
Slovak Republic	3491	5.3	77.5	8.6	6.8	1.8	77.5	0.5	0.0	1.3	80.1	74.9
Slovenia	3104	10.9	63.4	11.6	10.3	3.9	63.4	2.2	0.0	1.7	66.6	59.9
South Africa	8123	16.8	29.8	30.3	18.9	4.2	29.8	1.2	0.3	2.6	30.4	29.1
Thailand	5732	6.7	71.0	13.5	8.2	0.6	71.0	0.0	0.0	0.6	73.3	68.2
Tunisia	5047	3.9	61.6	7.0	8.3	19.3	61.6	16.7	0.1	2.5	59.8	63.4
Turkey	7838	11.5	49.6	21.2	15.4	2.2	49.6	0.0	0.0	2.2	52.0	47.9
United States	8985	10.0	53.9	20.0	15.3	0.7	53.9	0.1	0.0	0.6	55.8	52.0
International Avg.	.	7.9	61.2	15.5	11.2	4.2	61.2	1.4	0.0	2.7	62.2	60.3

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Data Representation, Analysis and Probability  
 Label: Comparison of two average scores ( M012006 - A06 )  
 Item Type = MC Key = C

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	4019	3.0	5.0	72.7	9.3	9.1	1.0	72.7	0.0	0.0	1.0	74.9	70.3
Belgium (Flemish)	5256	1.9	3.4	78.1	7.9	7.8	0.9	78.1	0.1	0.0	0.8	78.6	77.7
Bulgaria	3271	1.9	1.8	84.5	5.1	5.2	1.5	84.5	0.2	0.1	1.2	86.6	82.4
Canada	8740	3.1	4.3	76.7	6.5	9.0	0.4	76.7	0.0	0.1	0.3	78.6	74.8
Chile	5862	3.9	7.0	69.9	7.6	9.1	2.4	69.9	0.0	0.3	2.2	69.7	70.2
Chinese Taipei	5772	1.1	1.5	90.5	2.6	4.1	0.1	90.5	0.0	0.0	0.1	91.1	89.9
Cyprus	3111	3.1	4.2	69.6	11.8	9.9	1.3	69.6	0.1	0.0	1.2	69.4	69.8
Czech Republic	3450	1.3	2.7	82.6	5.6	6.7	1.1	82.6	0.1	0.0	1.0	81.8	83.6
England	2946	3.0	6.0	64.1	13.2	12.7	1.0	64.1	0.0	0.0	0.9	66.8	61.4
Finland	2916	3.7	4.7	74.3	7.3	9.0	1.0	74.3	0.0	0.0	1.0	75.4	73.2
Hong Kong, SAR	5176	1.3	2.5	87.5	3.4	4.8	0.6	87.5	0.0	0.0	0.5	88.6	86.4
Hungary	3178	1.6	2.9	75.7	9.7	7.9	2.2	75.7	0.1	0.1	2.0	75.3	76.2
Indonesia	5846	4.8	7.8	66.1	9.9	11.0	0.5	66.1	0.0	0.0	0.5	65.8	66.4
Iran, Islamic Rep.	5289	2.9	4.7	73.9	9.2	7.6	1.8	73.9	0.0	0.1	1.7	74.3	73.7
Israel	4191	2.9	4.8	73.4	6.1	10.5	2.4	73.4	0.1	0.4	1.9	74.1	72.8
Italy	3328	3.0	4.6	67.8	11.6	10.7	2.4	67.8	0.0	0.0	2.4	66.8	68.8
Japan	4735	1.8	2.0	87.2	3.9	5.0	0.2	87.2	0.0	0.0	0.1	87.8	86.6
Jordan	5041	4.5	6.6	61.8	14.4	10.9	1.8	61.8	0.4	0.0	1.4	64.0	59.9
Korea, Rep. of	6113	1.4	2.3	89.9	2.5	3.9	0.1	89.9	0.0	0.0	0.1	90.1	89.6
Latvia (LSS)	2869	2.9	2.8	74.3	11.4	7.5	1.1	74.3	0.1	0.0	1.0	76.4	72.1
Lithuania	2359	2.3	3.1	80.2	6.3	6.9	1.3	80.2	0.0	0.0	1.2	79.8	80.5
Macedonia, Rep. of	4022	2.8	3.8	73.2	9.7	6.2	4.3	73.2	0.1	0.1	4.1	71.8	74.6
Malaysia	5577	1.7	2.5	87.8	3.4	4.2	0.3	87.8	0.0	0.0	0.3	89.1	86.2
Moldova	3708	2.5	3.2	75.9	10.1	6.8	1.5	75.9	0.1	0.1	1.3	78.4	73.0
Morocco	5386	6.8	10.7	56.0	12.2	9.8	4.5	56.0	0.8	0.1	3.5	52.6	58.4
Netherlands	2957	4.1	4.9	74.5	6.4	9.6	0.5	74.5	0.0	0.0	0.5	74.1	74.9
New Zealand	3602	3.4	4.8	65.8	12.9	12.2	1.0	65.8	0.1	0.0	0.9	67.1	64.5
Philippines	6598	6.2	6.7	64.5	11.9	10.1	0.7	64.5	0.1	0.0	0.6	66.8	61.8
Romania	3424	2.2	3.3	79.4	6.9	6.9	1.2	79.4	0.2	0.0	1.0	79.3	79.5
Russian Federation	4332	2.0	3.3	75.2	10.3	7.0	2.2	75.2	0.1	0.1	2.0	76.0	74.5
Singapore	4966	0.9	1.5	91.5	2.4	3.6	0.2	91.5	0.0	0.0	0.2	92.7	90.3
Slovak Republic	3491	1.1	1.8	86.0	5.5	4.6	1.0	86.0	0.0	0.0	1.0	86.2	85.8
Slovenia	3104	2.1	2.6	82.1	5.5	6.7	0.9	82.1	0.0	0.0	0.9	83.5	80.5
South Africa	8124	8.9	9.3	45.1	22.1	12.4	2.2	45.1	0.5	0.4	1.3	44.3	46.0
Thailand	5732	2.8	4.1	76.2	7.1	9.5	0.3	76.2	0.0	0.1	0.2	76.7	75.6
Tunisia	5040	1.3	2.5	81.8	5.9	6.4	2.1	81.8	0.5	0.1	1.6	80.4	83.2
Turkey	7837	2.5	4.3	76.0	7.5	8.9	0.8	76.0	0.0	0.0	0.8	76.2	75.9
United States	8985	2.7	5.4	73.3	7.7	10.3	0.6	73.3	0.0	0.0	0.5	75.1	71.4
International Avg.	.	2.9	4.2	75.4	8.2	8.0	1.3	75.4	0.1	0.1	1.1	75.9	74.8

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Data Representation, Analysis and Probability  
 Label: Graph showing greatest increase ( M012007 - B07 )  
 Item Type = MC Key = D

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	2022	6.7	7.3	10.0	75.7	0.3	75.7	0.1	0.0	0.2	79.1	72.2
Belgium (Flemish)	2620	13.2	5.4	10.0	70.7	0.7	70.7	0.3	0.0	0.4	73.5	67.9
Bulgaria	1644	13.2	5.1	24.3	55.4	1.9	55.4	0.9	0.1	0.9	56.3	54.4
Canada	4356	7.2	7.3	10.3	74.8	0.4	74.8	0.0	0.1	0.3	75.8	74.0
Chile	2930	26.9	5.0	25.7	39.1	3.2	39.1	0.0	0.9	2.3	39.8	38.4
Chinese Taipei	2873	6.5	3.6	10.2	79.5	0.2	79.5	0.0	0.0	0.1	81.1	77.9
Cyprus	1554	36.1	4.7	17.0	40.4	1.8	40.4	0.2	0.0	1.6	40.4	40.4
Czech Republic	1705	23.7	3.6	12.6	57.9	2.1	57.9	0.5	0.3	1.4	56.8	59.1
England	1467	6.7	4.4	12.9	74.4	1.6	74.4	0.2	0.9	0.5	75.0	73.7
Finland	1456	2.8	6.3	8.8	81.0	1.2	81.0	0.0	0.0	1.2	81.8	80.2
Hong Kong, SAR	2577	3.8	8.3	4.8	82.9	0.2	82.9	0.0	0.0	0.1	84.1	81.8
Hungary	1588	9.7	4.2	12.6	71.7	1.8	71.7	0.5	0.3	1.0	72.5	71.0
Indonesia	2931	15.7	5.4	36.0	42.0	0.9	42.0	0.1	0.1	0.7	43.8	40.1
Iran, Islamic Rep.	.	.	.	.	.	.	.	.	.	.	.	.
Israel	2103	17.8	5.1	13.7	61.7	1.7	61.7	0.0	0.4	1.3	61.6	62.0
Italy	1670	21.5	3.1	13.0	60.9	1.5	60.9	0.0	0.2	1.3	60.1	61.9
Japan	2369	1.9	3.7	2.7	91.7	0.1	91.7	0.0	0.0	0.0	93.9	89.4
Jordan	2526	31.1	4.9	23.6	38.3	2.2	38.3	0.5	0.0	1.8	38.5	38.1
Korea, Rep. of	3056	4.8	1.6	3.8	89.8	0.0	89.8	0.0	0.0	0.0	91.1	88.6
Latvia (LSS)	1427	12.8	6.8	13.7	61.9	4.8	61.9	3.1	0.0	1.7	65.6	58.2
Lithuania	1176	20.6	3.2	11.8	62.2	2.2	62.2	0.1	0.1	2.1	63.5	60.9
Macedonia, Rep. of	2013	18.3	8.2	17.4	52.2	3.9	52.2	0.2	0.4	3.4	53.6	50.8
Malaysia	2781	15.5	3.4	12.4	67.8	0.9	67.8	0.0	0.1	0.8	67.9	67.8
Moldova	1558	42.9	5.2	18.6	30.3	3.0	30.3	0.5	0.4	2.1	32.1	28.2
Morocco	2673	27.7	11.9	33.8	21.7	5.0	21.7	0.5	0.8	3.7	21.0	22.1
Netherlands	1477	4.5	6.9	5.8	82.3	0.5	82.3	0.0	0.0	0.5	80.6	84.2
New Zealand	1791	9.2	6.6	12.3	71.7	0.3	71.7	0.1	0.0	0.2	75.0	68.5
Philippines	3310	30.0	5.7	27.9	35.8	0.6	35.8	0.3	0.0	0.3	36.1	35.5
Romania	1712	20.5	9.5	31.8	35.9	2.3	35.9	0.8	0.2	1.3	38.5	33.0
Russian Federation	2162	12.2	2.6	12.5	70.4	2.3	70.4	0.5	0.1	1.7	72.1	68.6
Singapore	2490	5.1	4.6	4.6	85.4	0.3	85.4	0.0	0.0	0.3	86.4	84.5
Slovak Republic	1758	12.8	3.5	17.1	64.9	1.7	64.9	0.2	0.0	1.5	62.3	67.6
Slovenia	1546	6.9	4.7	10.8	76.5	1.0	76.5	0.2	0.1	0.7	80.0	72.8
South Africa	4037	40.1	9.6	24.7	22.6	2.9	22.6	0.8	0.7	1.3	22.7	22.6
Thailand	2870	24.8	4.7	14.9	54.9	0.7	54.9	0.0	0.0	0.7	57.3	52.0
Tunisia	2519	23.4	5.8	30.8	35.3	4.7	35.3	1.5	0.5	2.7	34.4	36.3
Turkey	3921	33.7	4.4	18.8	42.1	1.0	42.1	0.0	0.1	0.9	43.2	41.3
United States	4444	8.3	8.5	9.9	72.8	0.5	72.8	0.0	0.1	0.3	73.1	72.5
International Avg.	.	16.7	5.5	15.7	60.4	1.6	60.4	0.3	0.2	1.1	61.4	59.4

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent



Mathematics: Fractions and Number Sense  
 Label: Calories in portion of food from ratio ( M012008 - B08 )  
 Item Type = MC Key = A

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	2022	71.8	21.2	4.0	1.5	1.1	0.3	71.8	0.1	0.0	0.2	71.9	71.7
Belgium (Flemish)	2620	78.0	15.8	3.6	1.2	1.0	0.4	78.0	0.0	0.0	0.4	76.2	79.8
Bulgaria	1644	68.4	18.5	3.3	3.5	3.8	2.4	68.4	0.2	0.1	2.1	72.2	64.4
Canada	4356	72.9	19.5	3.9	1.6	1.4	0.6	72.9	0.1	0.1	0.4	72.7	73.1
Chile	2931	62.2	15.9	7.5	4.1	3.5	6.8	62.2	0.0	1.1	5.7	59.3	65.1
Chinese Taipei	2873	84.3	6.3	5.1	1.5	2.6	0.2	84.3	0.0	0.0	0.2	84.5	84.1
Cyprus	1559	74.3	13.7	5.7	2.3	3.1	0.9	74.3	0.1	0.0	0.8	77.0	71.8
Czech Republic	1705	76.2	14.7	4.2	1.3	2.2	1.4	76.2	0.1	0.3	1.0	73.1	79.3
England	1467	69.7	22.7	3.4	2.3	0.7	1.2	69.7	0.0	1.0	0.2	68.2	71.0
Finland	1456	65.4	29.1	2.9	1.0	1.2	0.4	65.4	0.0	0.0	0.4	62.0	68.8
Hong Kong, SAR	2577	84.4	10.1	3.5	1.0	0.6	0.5	84.4	0.1	0.0	0.4	85.9	82.9
Hungary	1588	72.7	19.3	2.8	1.5	1.2	2.5	72.7	0.0	0.4	2.1	70.9	74.3
Indonesia	2930	55.5	13.6	9.4	9.9	9.8	1.8	55.5	0.0	0.1	1.6	54.1	57.0
Iran, Islamic Rep.	2650	65.9	10.2	8.7	4.9	7.6	2.8	65.9	0.0	0.1	2.6	62.3	68.3
Israel	2103	66.1	19.4	4.8	3.2	3.3	3.2	66.1	0.0	0.5	2.7	62.3	70.1
Italy	1670	73.5	11.9	6.6	2.6	3.4	1.9	73.5	0.0	0.2	1.7	73.1	74.0
Japan	2369	63.2	20.6	10.7	2.5	2.6	0.4	63.2	0.0	0.0	0.4	63.6	62.8
Jordan	2523	56.2	13.7	11.1	6.0	9.0	3.9	56.2	0.1	0.0	3.9	55.0	57.3
Korea, Rep. of	3056	85.7	8.0	4.2	1.4	0.6	0.2	85.7	0.0	0.0	0.1	85.2	86.2
Latvia (LSS)	1426	70.4	23.1	3.1	0.2	1.5	1.7	70.4	0.1	0.0	1.6	72.5	68.4
Lithuania	1176	54.5	23.4	6.4	1.4	12.7	1.7	54.5	0.0	0.1	1.6	54.9	54.0
Macedonia, Rep. of	2012	73.7	11.0	5.2	2.3	3.1	4.7	73.7	0.2	0.4	4.1	74.3	73.1
Malaysia	2781	78.2	8.8	4.1	2.5	5.1	1.3	78.2	0.0	0.1	1.2	78.6	77.8
Moldova	1869	73.3	13.0	5.6	2.8	3.4	1.9	73.3	0.0	0.4	1.4	73.6	73.0
Morocco	2671	53.1	14.1	13.9	6.6	6.7	5.5	53.1	0.3	0.8	4.4	49.1	55.9
Netherlands	1477	70.6	22.8	3.5	1.6	0.9	0.6	70.6	0.1	0.0	0.6	67.2	74.5
New Zealand	1790	68.8	22.1	5.5	1.9	1.2	0.5	68.8	0.0	0.0	0.5	67.5	70.1
Philippines	3310	42.5	18.0	15.4	10.3	12.8	1.0	42.5	0.1	0.0	0.9	42.0	43.0
Romania	1712	72.5	12.6	6.5	2.4	4.1	1.9	72.5	0.1	0.3	1.6	74.5	70.5
Russian Federation	2162	75.5	13.4	3.7	1.9	3.2	2.4	75.5	0.0	0.2	2.2	75.9	75.1
Singapore	2490	90.5	5.7	1.9	1.0	0.6	0.3	90.5	0.0	0.0	0.3	92.0	89.1
Slovak Republic	1758	78.3	14.3	2.9	1.3	2.0	1.2	78.3	0.0	0.1	1.0	77.4	79.1
Slovenia	1546	75.3	17.1	3.3	1.8	1.5	1.1	75.3	0.0	0.1	1.0	77.1	73.3
South Africa	4037	37.1	19.1	18.0	10.6	11.4	3.9	37.1	0.3	0.9	2.7	35.5	39.0
Thailand	2870	75.4	11.4	4.9	3.9	4.1	0.4	75.4	0.0	0.0	0.3	72.6	78.7
Tunisia	2515	69.4	10.1	7.1	3.0	5.0	5.5	69.4	0.7	0.6	4.1	67.4	71.4
Turkey	3920	66.1	10.7	9.6	6.5	5.7	1.3	66.1	0.0	0.1	1.3	67.1	65.4
United States	4444	68.1	19.8	6.1	2.8	2.4	0.7	68.1	0.0	0.1	0.6	67.6	68.6
International Avg.	.	69.5	15.6	6.1	3.1	3.8	1.8	69.5	0.1	0.2	1.5	68.9	70.1

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Fractions and Number Sense  
 Label: Figure showing equivalent fractions ( M012009 - B09 )  
 Item Type = MC Key = A

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	2022	65.0	9.6	6.9	16.3	2.2	65.0	0.9	0.0	1.4	66.1	63.8
Belgium (Flemish)	2620	74.0	5.5	7.8	10.3	2.4	74.0	1.3	0.0	1.1	76.4	71.6
Bulgaria	1644	51.8	12.2	15.9	7.3	12.8	51.8	4.8	0.2	7.9	51.9	51.5
Canada	4356	71.9	7.4	4.3	14.8	1.6	71.9	0.8	0.1	0.7	74.2	69.6
Chile	2931	45.7	12.5	12.4	18.4	11.0	45.7	0.0	1.6	9.3	49.2	42.2
Chinese Taipei	2873	80.2	3.9	5.8	7.4	2.6	80.2	0.4	0.0	2.3	83.1	77.4
Cyprus	1554	62.4	9.9	8.4	13.4	5.8	62.4	3.0	0.0	2.8	68.4	56.5
Czech Republic	1705	46.2	16.6	24.1	7.1	6.0	46.2	1.2	0.3	4.5	47.8	44.5
England	1467	59.9	13.0	8.5	15.4	3.2	59.9	1.1	1.0	1.1	60.3	59.4
Finland	1456	63.3	9.6	6.4	16.0	4.6	63.3	0.0	0.0	4.6	70.9	55.6
Hong Kong, SAR	2577	82.4	3.2	3.6	9.1	1.7	82.4	0.2	0.0	1.5	85.1	79.8
Hungary	1588	52.9	14.0	20.5	6.2	6.4	52.9	0.8	0.4	5.1	55.1	50.9
Indonesia	2930	45.6	17.7	15.6	15.4	5.7	45.6	0.2	0.1	5.4	48.8	42.2
Iran, Islamic Rep.	2650	56.5	8.5	14.1	10.7	10.2	56.5	0.0	0.2	10.0	57.2	56.0
Israel	2103	58.9	14.3	10.2	9.2	7.4	58.9	1.1	0.6	5.8	60.5	57.4
Italy	1670	59.9	10.5	11.3	14.7	3.6	59.9	0.0	0.2	3.4	60.9	58.7
Japan	2369	80.9	6.4	6.6	5.1	1.0	80.9	0.2	0.0	0.7	83.2	78.7
Jordan	2523	49.2	10.1	13.1	17.5	10.1	49.2	4.2	0.1	5.8	54.2	44.8
Korea, Rep. of	3056	81.4	4.7	5.5	7.9	0.5	81.4	0.2	0.0	0.3	81.0	81.7
Latvia (LSS)	1426	48.2	13.2	19.4	9.0	10.2	48.2	5.4	0.1	4.7	49.2	47.2
Lithuania	1176	51.3	12.6	18.6	10.5	6.9	51.3	0.1	0.2	6.7	51.7	51.0
Macedonia, Rep. of	2013	45.0	14.8	14.3	7.7	18.2	45.0	7.8	0.6	9.8	47.2	42.9
Malaysia	2781	75.5	5.7	2.7	14.4	1.8	75.5	0.0	0.1	1.7	77.0	73.7
Moldova	1868	54.5	10.8	18.1	9.2	7.4	54.5	1.7	0.5	5.2	56.8	51.9
Morocco	2671	23.2	17.0	21.8	19.0	19.0	23.2	4.0	1.0	14.1	24.1	22.5
Netherlands	1477	68.8	11.1	12.0	7.0	1.1	68.8	0.5	0.0	0.6	68.3	69.5
New Zealand	1790	58.0	10.7	7.0	21.2	3.1	58.0	1.0	0.0	2.1	61.3	54.7
Philippines	3310	58.5	13.3	11.3	13.4	3.5	58.5	0.2	0.1	3.2	59.5	57.4
Romania	1713	43.8	11.9	19.3	11.2	13.7	43.8	8.0	0.3	5.4	45.2	42.5
Russian Federation	2162	61.8	10.4	13.4	7.2	7.2	61.8	2.0	0.3	4.9	64.6	58.7
Singapore	2490	83.4	4.7	2.8	8.4	0.7	83.4	0.1	0.0	0.5	84.6	82.3
Slovak Republic	1758	51.6	14.8	18.1	8.7	6.8	51.6	2.6	0.1	4.1	52.1	51.1
Slovenia	1546	66.6	11.8	10.9	6.4	4.2	66.6	1.1	0.1	3.0	68.2	64.8
South Africa	4037	29.4	13.1	12.7	19.6	25.2	29.4	7.6	1.0	16.6	28.7	30.2
Thailand	2870	61.3	11.7	9.3	16.0	1.7	61.3	0.0	0.1	1.7	62.5	59.8
Tunisia	2509	33.4	7.0	8.3	12.4	39.0	33.4	28.8	0.8	9.4	34.2	32.6
Turkey	3920	46.0	13.9	18.0	13.1	9.0	46.0	0.4	0.1	8.5	48.9	43.8
United States	4444	63.3	10.3	8.4	15.6	2.4	63.3	0.2	0.1	2.1	66.4	60.2
International Avg.	.	58.2	10.8	11.8	11.9	7.4	58.2	2.4	0.3	4.7	60.1	56.3

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Fractions and Number Sense  
 Label: Smallest decimal fraction ( M012010 - B10 )  
 Item Type = MC Key = E

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	2022	21.9	4.3	1.0	14.6	57.9	0.3	57.9	0.1	0.0	0.2	54.0	62.0
Belgium (Flemish)	2620	25.2	2.2	0.6	4.3	67.2	0.5	67.2	0.2	0.0	0.3	62.9	71.4
Bulgaria	1644	27.5	2.8	1.4	20.5	46.2	1.7	46.2	0.2	0.2	1.4	43.3	49.1
Canada	4356	22.8	2.8	1.0	12.4	60.5	0.5	60.5	0.0	0.1	0.4	56.7	64.4
Chile	2931	21.5	1.8	1.1	58.3	14.3	3.0	14.3	0.0	1.7	1.3	12.2	16.4
Chinese Taipei	2873	20.8	1.4	1.2	7.1	69.5	0.1	69.5	0.0	0.0	0.1	65.5	73.5
Cyprus	1559	41.7	8.3	2.4	20.0	27.0	0.6	27.0	0.2	0.0	0.4	22.3	31.5
Czech Republic	1705	24.3	2.1	0.7	13.5	58.7	0.7	58.7	0.1	0.3	0.3	54.0	63.6
England	1467	24.4	3.9	0.5	24.6	45.2	1.3	45.2	0.1	1.0	0.3	36.1	54.2
Finland	1456	16.6	3.4	0.3	9.5	69.9	0.2	69.9	0.0	0.0	0.2	60.3	79.8
Hong Kong, SAR	2577	13.0	1.1	0.5	2.1	82.6	0.7	82.6	0.1	0.0	0.6	81.9	83.3
Hungary	1588	31.7	1.4	1.0	10.6	54.8	0.6	54.8	0.0	0.4	0.2	48.4	61.1
Indonesia	2930	34.7	3.2	2.1	50.2	8.7	1.1	8.7	0.0	0.2	0.9	8.7	8.8
Iran, Islamic Rep.	2650	40.2	14.4	2.5	30.7	10.5	1.7	10.5	0.0	0.2	1.5	9.0	11.5
Israel	2103	40.9	4.2	2.6	20.7	29.3	2.3	29.3	0.1	0.6	1.7	21.5	37.6
Italy	1670	29.2	2.1	1.9	28.0	37.1	1.6	37.1	0.1	0.2	1.3	30.7	44.1
Japan	2369	23.2	0.3	0.3	2.8	73.2	0.0	73.2	0.0	0.0	0.0	66.7	79.7
Jordan	2523	14.6	4.3	4.1	49.8	26.0	1.3	26.0	0.2	0.1	1.0	26.4	25.6
Korea, Rep. of	3056	13.1	1.0	0.4	3.1	82.2	0.1	82.2	0.0	0.0	0.1	77.8	86.6
Latvia (LSS)	1426	31.0	3.0	1.5	15.2	48.8	0.6	48.8	0.1	0.1	0.4	42.7	55.0
Lithuania	1176	19.3	2.5	0.9	15.7	61.0	0.5	61.0	0.1	0.2	0.2	60.3	61.7
Macedonia, Rep. of	2013	36.5	1.4	1.7	33.1	25.3	2.0	25.3	0.3	0.6	1.1	22.9	27.6
Malaysia	2781	20.1	1.6	1.4	17.5	58.6	0.8	58.6	0.0	0.1	0.7	59.0	58.1
Moldova	1869	26.0	2.1	1.0	39.4	30.6	1.1	30.6	0.1	0.6	0.4	28.9	32.5
Morocco	2671	11.4	10.1	4.3	40.1	31.1	3.0	31.1	0.3	1.1	1.6	30.0	31.8
Netherlands	1477	16.1	2.5	0.5	6.7	73.9	0.3	73.9	0.0	0.0	0.3	68.3	80.1
New Zealand	1790	26.7	4.2	1.3	24.7	42.5	0.6	42.5	0.2	0.0	0.3	39.1	45.9
Philippines	3310	16.0	3.8	2.6	66.2	10.5	0.9	10.5	0.1	0.1	0.7	10.9	10.0
Romania	1713	24.4	4.8	3.2	38.0	27.7	1.9	27.7	0.4	0.4	1.0	25.8	29.8
Russian Federation	2162	26.5	1.3	0.8	17.5	52.5	1.3	52.5	0.3	0.3	0.7	51.7	53.4
Singapore	2490	9.3	1.3	0.3	2.6	86.4	0.1	86.4	0.0	0.0	0.1	84.1	88.4
Slovak Republic	1758	20.2	2.1	0.4	16.4	60.4	0.6	60.4	0.0	0.2	0.4	53.5	67.4
Slovenia	1546	22.4	3.1	1.1	14.6	58.3	0.4	58.3	0.1	0.1	0.2	53.8	63.3
South Africa	4037	11.5	3.2	2.0	75.0	5.6	2.7	5.6	0.5	1.2	1.0	4.3	7.1
Thailand	2870	26.2	1.8	1.3	25.5	44.9	0.3	44.9	0.0	0.1	0.3	47.4	41.8
Tunisia	2517	17.8	19.9	2.6	22.1	34.1	3.6	34.1	0.6	0.8	2.3	27.8	40.4
Turkey	3920	40.0	2.0	2.5	45.3	8.6	1.7	8.6	0.0	0.1	1.6	6.2	10.5
United States	4444	23.2	3.4	1.5	19.9	50.9	1.1	50.9	0.0	0.1	1.0	46.6	55.1
International Avg.	.	24.0	3.7	1.5	24.2	45.6	1.1	45.6	0.1	0.3	0.7	42.1	49.1

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Geometry  
 Label: Cube from folded 2-dimensional net ( M012011 - B11 )  
 Item Type = MC Key = C

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	2022	6.6	14.0	75.4	3.0	1.0	75.4	0.4	0.0	0.6	73.0	77.9
Belgium (Flemish)	2620	4.2	9.6	81.8	3.2	1.3	81.8	0.9	0.0	0.4	80.7	83.0
Bulgaria	1644	11.2	18.2	64.0	4.0	2.6	64.0	0.4	0.2	1.9	62.1	65.9
Canada	4356	6.5	16.4	73.7	2.6	0.8	73.7	0.2	0.1	0.5	72.2	75.4
Chile	2931	17.6	23.4	48.1	6.1	4.8	48.1	0.0	1.7	3.0	46.2	50.0
Chinese Taipei	2873	5.2	9.8	82.9	1.8	0.4	82.9	0.0	0.0	0.4	81.8	84.0
Cyprus	1556	21.4	28.0	44.5	4.7	1.4	44.5	0.3	0.0	1.1	44.1	45.0
Czech Republic	1705	5.8	10.3	77.9	3.8	2.2	77.9	0.0	0.3	1.9	75.2	80.6
England	1467	9.3	20.5	64.4	4.0	1.8	64.4	0.5	1.0	0.3	60.2	68.6
Finland	1456	5.7	14.1	77.1	2.2	1.0	77.1	0.0	0.0	1.0	81.7	72.4
Hong Kong, SAR	2577	4.1	8.6	84.4	2.6	0.4	84.4	0.0	0.0	0.3	84.5	84.2
Hungary	1588	7.7	19.3	67.8	3.5	1.7	67.8	0.1	0.4	1.2	66.3	69.5
Indonesia	2930	21.1	31.6	38.1	7.6	1.6	38.1	0.0	0.2	1.4	34.1	42.3
Iran, Islamic Rep.	2650	25.2	30.5	28.0	13.0	3.3	28.0	0.0	0.2	3.1	25.1	30.0
Israel	2103	19.0	24.6	47.6	5.5	3.2	47.6	0.1	0.6	2.5	44.8	50.5
Italy	1670	12.9	26.0	54.6	5.5	1.0	54.6	0.1	0.3	0.6	52.9	56.4
Japan	2369	2.3	7.5	88.9	1.2	0.2	88.9	0.0	0.0	0.1	87.5	90.3
Jordan	2526	25.0	31.5	33.7	7.7	2.2	33.7	0.3	0.1	1.8	33.4	34.0
Korea, Rep. of	3056	3.9	8.8	84.7	2.4	0.2	84.7	0.0	0.0	0.2	83.1	86.2
Latvia (LSS)	1428	6.9	16.9	70.9	3.6	1.6	70.9	0.4	0.1	1.1	69.4	72.4
Lithuania	1176	9.6	25.3	60.5	2.9	1.7	60.5	0.0	0.2	1.6	58.0	63.0
Macedonia, Rep. of	2013	21.6	26.9	39.5	6.8	5.3	39.5	0.4	0.6	4.3	38.2	40.7
Malaysia	2781	7.4	15.6	71.5	4.6	0.9	71.5	0.0	0.1	0.8	67.9	75.7
Moldova	1869	21.7	21.8	46.5	7.2	2.7	46.5	0.4	0.6	1.7	45.8	47.4
Morocco	2672	30.4	25.6	21.4	16.4	6.2	21.4	0.4	1.2	4.6	21.2	21.6
Netherlands	1477	3.4	10.0	82.3	4.0	0.3	82.3	0.0	0.0	0.3	81.4	83.5
New Zealand	1791	8.3	16.1	70.4	4.1	1.2	70.4	0.7	0.0	0.4	71.1	69.6
Philippines	3310	31.1	34.6	24.5	8.9	1.0	24.5	0.1	0.1	0.7	20.6	29.0
Romania	1713	21.9	25.2	42.0	7.8	3.1	42.0	0.8	0.4	1.9	39.7	44.5
Russian Federation	2161	12.8	18.5	60.0	4.3	4.3	60.0	0.6	0.3	3.4	59.1	61.0
Singapore	2490	4.0	10.1	83.0	2.3	0.7	83.0	0.0	0.1	0.6	79.6	86.0
Slovak Republic	1758	7.8	13.9	74.3	2.5	1.5	74.3	0.2	0.2	1.1	73.9	74.7
Slovenia	1546	11.1	15.7	68.4	1.5	3.3	68.4	0.3	0.1	2.9	68.4	68.4
South Africa	4037	32.6	21.4	14.6	22.7	8.6	14.6	0.6	1.3	6.8	13.6	15.9
Thailand	2870	14.6	24.7	53.2	7.1	0.4	53.2	0.0	0.1	0.3	50.7	56.2
Tunisia	2517	21.5	27.6	37.2	5.0	8.7	37.2	2.1	0.8	5.8	34.2	40.2
Turkey	3920	23.0	32.0	34.4	9.0	1.7	34.4	0.0	0.1	1.6	36.7	32.6
United States	4444	9.6	20.4	64.7	4.6	0.7	64.7	0.1	0.1	0.5	61.4	67.9
International Avg.	.	13.5	19.9	58.9	5.5	2.2	58.9	0.3	0.3	1.6	57.4	60.4

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Algebra  
 Label: Equation representing relationship ( M012012 - B12 )  
 Item Type = MC Key = A

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	2022	71.9	3.4	12.0	12.3	0.3	71.9	0.1	0.0	0.2	73.2	70.5
Belgium (Flemish)	2620	80.7	2.2	9.0	7.5	0.6	80.7	0.1	0.0	0.5	81.3	80.2
Bulgaria	1644	76.3	2.7	9.8	8.0	3.2	76.3	0.6	0.3	2.4	79.4	73.0
Canada	4356	82.0	1.7	6.7	9.1	0.5	82.0	0.1	0.1	0.3	83.7	80.2
Chile	2931	38.3	4.3	20.9	29.6	6.8	38.3	0.0	2.4	4.4	38.4	38.2
Chinese Taipei	2873	83.5	1.8	4.7	9.9	0.0	83.5	0.0	0.0	0.0	84.6	82.5
Cyprus	1557	65.6	3.1	13.2	16.9	1.1	65.6	0.0	0.0	1.1	70.1	61.2
Czech Republic	1705	71.7	4.2	8.4	13.2	2.5	71.7	0.2	0.3	2.1	73.1	70.2
England	1467	62.2	3.0	14.2	18.9	1.8	62.2	0.1	1.0	0.7	62.9	61.3
Finland	1456	68.5	3.5	12.2	14.5	1.4	68.5	0.0	0.1	1.3	73.4	63.5
Hong Kong, SAR	2577	93.5	1.5	2.0	2.6	0.4	93.5	0.1	0.0	0.2	94.5	92.5
Hungary	1588	79.8	3.0	4.0	10.6	2.5	79.8	0.3	0.5	1.8	81.5	78.1
Indonesia	2930	36.7	3.1	18.4	40.8	1.0	36.7	0.0	0.2	0.8	36.7	36.7
Iran, Islamic Rep.	2650	46.0	8.2	20.0	22.8	3.0	46.0	0.0	0.2	2.7	47.9	44.7
Israel	2103	67.8	3.5	13.1	12.9	2.6	67.8	0.1	0.6	2.0	68.3	67.3
Italy	1670	58.4	4.1	12.5	20.9	4.1	58.4	0.1	0.4	3.6	58.7	58.1
Japan	2369	86.0	1.5	4.7	7.5	0.3	86.0	0.0	0.0	0.2	86.4	85.6
Jordan	2526	46.1	4.6	27.0	20.9	1.4	46.1	0.2	0.1	1.1	46.9	45.4
Korea, Rep. of	3056	84.6	1.4	6.5	7.5	0.1	84.6	0.0	0.0	0.1	84.6	84.5
Latvia (LSS)	1428	71.5	2.3	10.5	12.8	2.9	71.5	0.3	0.3	2.3	76.5	66.5
Lithuania	1176	70.9	2.7	8.4	15.6	2.4	70.9	0.0	0.3	2.1	73.5	68.3
Macedonia, Rep. of	2013	62.9	4.1	15.6	11.7	5.6	62.9	0.1	0.8	4.7	64.7	61.2
Malaysia	2781	57.1	2.3	8.9	30.9	0.8	57.1	0.0	0.1	0.6	59.7	54.1
Moldova	1868	65.3	3.9	10.4	17.9	2.5	65.3	0.1	0.8	1.6	67.2	63.1
Morocco	2672	35.0	8.0	25.7	26.0	5.3	35.0	0.4	1.4	3.5	32.9	36.5
Netherlands	1477	80.1	4.5	7.0	7.7	0.6	80.1	0.0	0.0	0.6	79.5	80.7
New Zealand	1791	58.4	4.4	15.9	20.5	0.8	58.4	0.2	0.0	0.6	62.4	54.5
Philippines	3310	19.4	4.9	38.8	36.1	0.8	19.4	0.1	0.2	0.5	20.7	18.0
Romania	1713	67.1	4.2	14.7	10.5	3.5	67.1	0.7	0.4	2.4	69.6	64.5
Russian Federation	2162	82.0	1.6	6.2	8.6	1.7	82.0	0.1	0.5	1.1	86.4	77.1
Singapore	2490	88.5	1.0	3.2	7.0	0.3	88.5	0.0	0.1	0.3	89.0	88.0
Slovak Republic	1758	81.1	2.2	6.7	8.5	1.5	81.1	0.0	0.4	1.1	82.7	79.5
Slovenia	1546	83.1	1.9	6.0	7.9	1.1	83.1	0.2	0.1	0.8	85.0	81.1
South Africa	4037	20.6	7.2	44.9	23.8	3.5	20.6	0.5	1.7	1.3	20.0	21.4
Thailand	2870	67.2	3.4	11.5	17.3	0.6	67.2	0.1	0.1	0.5	70.0	63.8
Tunisia	2517	58.3	4.1	16.8	16.2	4.6	58.3	1.2	1.0	2.4	54.1	62.6
Turkey	3920	40.8	6.4	18.0	33.2	1.6	40.8	0.0	0.1	1.5	41.9	40.0
United States	4444	77.5	3.3	10.3	8.5	0.5	77.5	0.0	0.1	0.4	80.5	74.5
International Avg.	.	65.4	3.5	13.1	16.0	2.0	65.4	0.2	0.4	1.4	66.9	63.9

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Measurement  
 Label: Volumes of stacks of blocks ( M012013 - C01 )  
 Item Type = MC Key = A

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	1481	72.3	14.7	7.0	4.8	1.2	72.3	0.2	0.0	1.0	71.4	73.3
Belgium (Flemish)	1967	70.4	14.8	8.8	4.5	1.6	70.4	0.6	0.0	1.0	69.3	71.4
Bulgaria	1229	56.8	15.5	16.7	6.0	5.0	56.8	0.2	0.1	4.8	52.9	60.4
Canada	3265	61.5	19.5	11.7	6.8	0.5	61.5	0.3	0.0	0.2	58.4	64.6
Chile	2200	19.9	32.5	34.3	8.1	5.1	19.9	0.0	0.8	4.3	17.1	22.9
Chinese Taipei	2175	78.8	10.6	7.8	2.4	0.5	78.8	0.2	0.0	0.3	78.4	79.1
Cyprus	1158	45.3	21.8	23.6	7.1	2.1	45.3	0.9	0.0	1.2	42.0	48.3
Czech Republic	1284	70.6	11.3	10.2	5.2	2.7	70.6	0.6	0.0	2.2	65.4	76.1
England	1099	62.0	20.1	9.7	6.2	1.9	62.0	0.6	0.0	1.3	58.0	66.1
Finland	1094	56.9	20.4	16.7	4.8	1.2	56.9	0.0	0.0	1.2	54.7	58.9
Hong Kong, SAR	1942	85.9	7.4	4.2	2.1	0.4	85.9	0.1	0.0	0.4	84.8	87.0
Hungary	1197	63.0	12.7	16.1	4.7	3.5	63.0	0.4	0.0	3.2	59.7	66.1
Indonesia	2193	35.0	28.3	29.0	6.4	1.3	35.0	0.0	0.0	1.3	32.8	37.3
Iran, Islamic Rep.	1986	26.9	21.9	35.7	10.4	5.1	26.9	0.0	0.1	5.0	21.2	30.9
Israel	1569	41.9	24.8	21.5	8.0	3.7	41.9	0.2	0.2	3.4	37.5	46.6
Italy	1260	52.4	20.3	17.4	8.5	1.4	52.4	0.0	0.2	1.2	51.1	53.6
Japan	1765	84.8	7.0	4.9	2.4	1.0	84.8	0.7	0.0	0.3	84.2	85.3
Jordan	1882	34.5	14.6	42.1	5.5	3.2	34.5	0.7	0.1	2.4	34.7	34.4
Korea, Rep. of	2292	87.9	5.2	5.2	1.6	0.1	87.9	0.0	0.0	0.1	86.2	89.6
Latvia (LSS)	1081	59.5	14.6	14.5	8.0	3.5	59.5	1.6	0.0	1.9	56.0	63.2
Lithuania	879	60.2	13.8	13.7	8.7	3.6	60.2	0.0	0.2	3.4	58.7	61.8
Macedonia, Rep. of	1496	36.0	24.1	24.4	5.2	10.3	36.0	3.7	0.2	6.3	34.2	37.8
Malaysia	2095	61.8	18.1	13.8	4.9	1.4	61.8	0.0	0.0	1.4	62.4	61.1
Moldova	1373	45.1	16.4	28.1	7.5	2.9	45.1	0.6	0.3	2.0	43.6	46.8
Morocco	1991	25.9	30.4	18.9	3.8	21.0	25.9	0.1	0.7	20.3	26.9	25.3
Netherlands	1111	78.4	11.3	7.8	2.4	0.1	78.4	0.1	0.0	0.1	77.1	79.7
New Zealand	1361	61.3	19.6	12.4	5.4	1.4	61.3	0.8	0.0	0.6	60.0	62.6
Philippines	2492	37.5	25.3	30.0	6.1	1.2	37.5	0.1	0.1	1.0	36.8	38.2
Romania	1291	38.1	18.9	30.4	7.2	5.4	38.1	2.0	0.0	3.3	38.0	38.2
Russian Federation	1623	60.0	15.5	16.6	4.4	3.6	60.0	0.3	0.1	3.2	59.1	61.0
Singapore	1861	88.7	5.4	4.1	1.6	0.2	88.7	0.0	0.0	0.2	89.4	88.0
Slovak Republic	1308	68.3	9.8	14.4	5.6	1.9	68.3	0.1	0.0	1.8	65.5	71.1
Slovenia	1147	65.9	11.7	14.7	5.3	2.3	65.9	0.3	0.0	2.0	63.2	69.0
South Africa	3001	23.8	22.5	41.2	7.1	5.4	23.8	1.4	0.4	3.6	23.3	24.4
Thailand	2151	62.5	18.4	17.3	1.5	0.4	62.5	0.0	0.1	0.3	62.6	62.4
Tunisia	1895	37.3	13.2	32.9	3.3	13.2	37.3	3.1	0.3	9.9	34.2	40.3
Turkey	2940	23.8	28.0	37.6	8.9	1.8	23.8	0.0	0.0	1.7	24.3	23.4
United States	3374	47.7	26.4	17.1	8.2	0.6	47.7	0.0	0.0	0.5	43.6	51.7
International Avg.	.	55.0	17.5	18.7	5.5	3.2	55.0	0.5	0.1	2.6	53.1	56.8

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Data Representation, Analysis and Probability  
 Label: Pie graph of crop distribution ( M012014 - C02 )  
 Item Type = MC Key = D

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	1481	0.6	8.3	5.9	83.1	2.1	83.1	0.7	0.0	1.4	84.2	82.0
Belgium (Flemish)	1967	1.3	4.6	3.9	89.0	1.1	89.0	0.8	0.0	0.3	91.8	86.2
Bulgaria	1229	1.4	12.9	4.3	76.9	4.5	76.9	2.5	0.2	1.8	76.0	77.6
Canada	3265	1.0	7.9	5.8	83.9	1.3	83.9	1.0	0.0	0.3	82.4	85.4
Chile	2200	2.9	30.2	7.2	57.1	2.6	57.1	0.0	1.0	1.6	56.8	57.4
Chinese Taipei	2175	1.2	11.7	3.4	83.5	0.2	83.5	0.0	0.0	0.2	85.0	81.8
Cyprus	1161	2.6	20.3	6.5	68.7	1.9	68.7	1.2	0.0	0.7	67.8	69.6
Czech Republic	1284	0.8	9.6	4.7	83.1	1.7	83.1	0.8	0.0	0.9	82.4	83.9
England	1099	0.8	7.1	7.4	80.8	3.9	80.8	2.8	0.0	1.1	82.2	79.3
Finland	1094	1.2	4.2	3.3	85.8	5.5	85.8	0.0	0.0	5.5	85.8	85.8
Hong Kong, SAR	1942	5.0	5.6	3.6	85.6	0.3	85.6	0.0	0.1	0.1	86.1	85.1
Hungary	1197	1.0	7.7	4.7	81.5	5.2	81.5	3.6	0.0	1.5	80.6	82.1
Indonesia	2193	3.3	40.1	14.0	41.8	0.8	41.8	0.0	0.0	0.8	40.2	43.5
Iran, Islamic Rep.	1986	2.8	14.1	8.5	70.1	4.4	70.1	0.0	0.2	4.3	67.2	72.1
Israel	1569	2.3	18.5	7.7	68.8	2.7	68.8	0.5	0.5	1.7	66.6	71.1
Italy	1260	2.0	16.8	6.2	74.1	0.9	74.1	0.0	0.3	0.6	74.3	73.9
Japan	1765	1.1	2.9	1.8	93.8	0.4	93.8	0.2	0.0	0.1	93.9	93.7
Jordan	1882	2.8	21.8	6.1	66.3	3.1	66.3	1.9	0.2	1.1	63.2	69.0
Korea, Rep. of	2292	1.4	5.0	2.0	91.5	0.1	91.5	0.0	0.0	0.0	90.7	92.3
Latvia (LSS)	1082	1.0	10.8	3.7	83.5	1.1	83.5	0.6	0.0	0.5	83.4	83.6
Lithuania	879	2.7	12.7	4.1	79.0	1.4	79.0	0.0	0.2	1.2	78.9	79.1
Macedonia, Rep. of	1497	3.1	20.0	5.0	66.5	5.4	66.5	3.1	0.3	2.0	66.9	66.2
Malaysia	2095	1.1	21.6	8.1	68.4	0.8	68.4	0.1	0.1	0.6	69.1	67.7
Moldova	1373	3.6	12.6	18.6	62.0	3.3	62.0	2.0	0.4	0.8	61.0	63.1
Morocco	1992	8.3	25.8	12.3	46.5	7.1	46.5	0.1	0.9	6.1	44.2	48.2
Netherlands	1111	1.8	7.5	3.4	86.8	0.5	86.8	0.4	0.0	0.1	87.0	86.5
New Zealand	1361	1.4	11.2	7.8	78.5	1.0	78.5	0.7	0.0	0.4	77.8	79.1
Philippines	2492	7.3	27.5	12.7	51.6	0.8	51.6	0.0	0.2	0.6	53.5	49.5
Romania	1290	3.6	23.3	3.4	66.0	3.7	66.0	2.5	0.0	1.2	63.5	68.4
Russian Federation	1623	1.1	13.5	3.8	79.8	1.7	79.8	0.3	0.1	1.2	79.3	80.5
Singapore	1861	0.6	9.9	4.5	84.8	0.1	84.8	0.0	0.0	0.1	84.7	84.9
Slovak Republic	1308	1.4	5.7	3.9	88.0	1.0	88.0	0.3	0.0	0.7	85.9	90.3
Slovenia	1147	1.8	9.4	4.1	82.7	2.0	82.7	1.4	0.0	0.6	81.5	84.0
South Africa	3001	18.3	28.3	12.7	36.6	4.2	36.6	2.0	0.6	1.6	36.4	36.7
Thailand	2151	2.8	10.4	5.4	81.0	0.4	81.0	0.0	0.1	0.2	81.9	80.0
Tunisia	1895	0.8	4.8	3.9	80.0	10.5	80.0	9.4	0.3	0.8	77.1	82.8
Turkey	2940	4.1	14.6	4.7	76.3	0.3	76.3	0.0	0.0	0.3	74.6	77.5
United States	3374	1.4	14.1	8.5	75.6	0.4	75.6	0.1	0.1	0.3	74.0	77.2
International Avg.	.	2.7	14.0	6.3	74.7	2.3	74.7	1.0	0.1	1.1	74.2	75.2

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Geometry  
 Label: Property of congruent trapezoids ( M012015 - C03 )  
 Item Type = MC Key = A

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	1481	67.6	5.2	13.0	5.1	7.0	2.0	67.6	0.1	0.2	1.7	70.9	64.2
Belgium (Flemish)	1967	70.1	4.0	11.7	4.5	4.2	5.6	70.1	2.9	0.0	2.7	72.7	67.5
Bulgaria	1229	71.4	5.5	9.6	2.5	3.6	7.3	71.4	0.6	0.2	6.5	71.9	70.7
Canada	3265	74.2	3.7	10.6	5.1	4.9	1.4	74.2	0.5	0.0	0.9	78.5	69.9
Chile	2200	33.9	11.0	19.8	13.8	11.4	10.0	33.9	0.0	1.2	8.9	33.9	33.9
Chinese Taipei	2175	79.0	3.7	9.8	4.6	2.6	0.4	79.0	0.0	0.0	0.4	82.3	75.6
Cyprus	1163	64.0	6.2	11.5	6.8	8.9	2.6	64.0	0.4	0.0	2.2	68.0	60.4
Czech Republic	1284	67.0	8.2	9.3	4.1	7.2	4.1	67.0	0.7	0.0	3.4	64.8	69.3
England	1099	60.3	6.4	10.8	8.3	9.9	4.3	60.3	1.8	0.0	2.5	62.7	58.0
Finland	1094	68.6	6.7	8.3	5.6	5.7	5.1	68.6	0.1	0.0	5.0	70.2	67.0
Hong Kong, SAR	1942	79.2	3.5	10.4	2.7	3.9	0.3	79.2	0.1	0.1	0.2	81.5	77.0
Hungary	1197	68.0	6.7	8.0	4.4	7.3	5.6	68.0	1.1	0.1	4.3	66.0	69.6
Indonesia	2193	55.4	11.9	10.4	10.0	10.7	1.6	55.4	0.0	0.1	1.5	53.1	57.9
Iran, Islamic Rep.	1985	46.4	7.7	18.5	9.2	12.1	6.1	46.4	0.0	0.2	5.9	45.8	46.9
Israel	1569	58.2	5.9	11.5	9.8	7.1	7.5	58.2	0.2	0.5	6.9	57.8	58.7
Italy	1260	61.3	8.1	13.5	5.2	7.3	4.5	61.3	0.0	0.3	4.3	61.6	61.1
Japan	1765	81.6	1.8	8.9	3.4	3.4	0.9	81.6	0.5	0.0	0.4	84.3	78.9
Jordan	1878	48.0	7.4	16.2	11.7	12.5	4.1	48.0	1.0	0.2	2.9	52.9	43.7
Korea, Rep. of	2292	82.6	2.2	4.1	5.4	5.1	0.6	82.6	0.0	0.0	0.5	83.9	81.4
Latvia (LSS)	1078	78.6	3.2	4.8	3.2	5.6	4.6	78.6	0.6	0.0	4.0	80.7	76.4
Lithuania	879	71.1	6.6	8.1	4.2	5.3	4.7	71.1	0.0	0.2	4.5	73.4	68.6
Macedonia, Rep. of	1496	58.0	7.1	12.0	6.4	7.7	8.7	58.0	1.6	0.6	6.5	61.1	54.9
Malaysia	2095	62.2	6.4	12.9	6.8	8.6	3.1	62.2	0.0	0.1	3.0	65.4	58.5
Moldova	1373	63.6	4.9	11.2	8.1	7.9	4.2	63.6	0.4	0.4	3.4	65.8	61.1
Morocco	1990	46.4	10.1	16.1	10.7	7.6	9.2	46.4	0.1	1.1	8.1	44.4	47.9
Netherlands	1111	72.2	5.8	10.1	3.9	6.8	1.2	72.2	0.3	0.0	0.9	73.0	71.6
New Zealand	1361	58.1	7.9	14.1	7.9	9.0	3.0	58.1	0.5	0.0	2.4	62.6	53.9
Philippines	2492	28.8	9.1	15.5	25.5	20.0	1.1	28.8	0.1	0.2	0.8	32.4	24.7
Romania	1290	62.8	7.5	11.5	6.1	6.3	5.8	62.8	1.7	0.0	4.0	65.0	60.7
Russian Federation	1623	77.9	1.8	7.0	3.1	6.2	4.0	77.9	0.4	0.2	3.4	82.4	72.8
Singapore	1861	81.5	1.9	9.1	3.0	3.7	0.6	81.5	0.1	0.0	0.6	83.0	80.0
Slovak Republic	1308	68.7	4.3	12.7	3.1	7.0	4.3	68.7	0.0	0.0	4.3	68.3	69.1
Slovenia	1147	71.3	3.2	9.6	4.8	5.9	5.2	71.3	1.0	0.0	4.2	75.7	66.6
South Africa	3001	25.2	12.2	18.4	16.7	22.9	4.5	25.2	1.6	0.6	2.3	24.9	25.4
Thailand	2151	59.4	4.0	18.1	11.3	6.8	0.4	59.4	0.0	0.1	0.3	61.8	56.5
Tunisia	1893	67.1	2.2	12.5	5.2	3.2	9.8	67.1	5.8	0.4	3.7	66.9	67.2
Turkey	2940	46.0	13.1	13.6	10.4	13.1	3.8	46.0	0.0	0.0	3.8	51.1	42.3
United States	3374	63.6	7.1	14.8	7.7	6.0	0.9	63.6	0.1	0.1	0.8	67.0	60.2
International Avg.	.	63.1	6.2	11.8	7.1	7.7	4.0	63.1	0.6	0.2	3.2	64.9	61.3

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent



Mathematics: Fractions and Number Sense  
 Label: Pair of numbers bracketing 2.25 ( M012016 - C04 )  
 Item Type = MC Key = B

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	1481	5.4	52.4	21.2	18.4	2.7	52.4	0.1	0.2	2.4	49.9	54.9
Belgium (Flemish)	1967	1.8	65.6	16.0	12.7	3.8	65.6	0.8	0.0	3.0	65.7	65.4
Bulgaria	1229	5.7	58.9	12.6	14.6	8.2	58.9	0.3	0.2	7.7	55.2	62.7
Canada	3265	4.5	58.5	20.2	15.0	1.8	58.5	0.5	0.0	1.3	57.4	59.6
Chile	2200	11.0	38.7	23.7	16.9	9.6	38.7	0.0	1.6	8.0	37.4	40.0
Chinese Taipei	2175	6.6	63.5	18.9	10.7	0.3	63.5	0.0	0.0	0.3	61.1	66.1
Cyprus	1161	8.1	51.8	21.2	14.6	4.2	51.8	0.9	0.0	3.3	49.9	53.6
Czech Republic	1284	4.2	61.2	14.1	15.3	5.2	61.2	0.5	0.1	4.6	58.3	64.2
England	1099	6.3	50.0	23.9	15.8	4.1	50.0	1.5	0.2	2.5	48.2	52.0
Finland	1094	5.0	47.4	24.1	17.9	5.6	47.4	0.0	0.0	5.6	44.1	50.4
Hong Kong, SAR	1943	8.6	59.2	18.3	13.4	0.5	59.2	0.1	0.1	0.4	59.0	59.4
Hungary	1197	3.4	59.2	17.0	14.1	6.3	59.2	1.6	0.1	4.6	56.3	61.6
Indonesia	2193	11.8	47.2	20.2	17.5	3.3	47.2	0.0	0.1	3.1	47.7	46.6
Iran, Islamic Rep.	1985	9.7	40.4	21.9	22.1	5.9	40.4	0.0	0.2	5.8	36.3	43.3
Israel	1569	5.6	51.9	18.0	18.6	6.0	51.9	0.7	0.5	4.8	48.7	55.2
Italy	1260	8.0	53.6	16.3	17.3	4.7	53.6	0.0	0.3	4.5	49.1	58.0
Japan	1765	6.8	60.8	20.6	10.5	1.2	60.8	0.1	0.0	1.1	60.5	61.2
Jordan	1878	8.4	40.1	24.3	22.4	4.7	40.1	0.9	0.3	3.5	37.0	42.9
Korea, Rep. of	2292	2.9	74.8	10.4	11.7	0.2	74.8	0.0	0.0	0.1	73.2	76.3
Latvia (LSS)	1078	5.9	53.1	18.0	15.6	7.3	53.1	1.7	0.1	5.5	49.4	57.0
Lithuania	879	7.2	56.7	13.4	14.8	7.8	56.7	0.0	0.4	7.4	56.5	57.0
Macedonia, Rep. of	1496	9.6	38.8	22.3	15.9	13.4	38.8	1.8	0.8	10.8	36.4	41.3
Malaysia	2095	6.1	55.3	20.7	14.3	3.6	55.3	0.0	0.1	3.4	55.9	54.7
Moldova	1373	8.1	55.6	17.4	13.2	5.6	55.6	0.9	0.4	4.4	54.8	56.6
Morocco	1992	17.2	31.8	25.4	12.3	13.4	31.8	0.1	1.5	11.7	32.1	31.6
Netherlands	1111	3.7	59.3	19.2	17.3	0.5	59.3	0.3	0.0	0.2	60.4	58.2
New Zealand	1361	7.8	50.1	21.8	17.8	2.5	50.1	0.4	0.0	2.2	52.8	47.6
Philippines	2492	12.7	55.8	17.4	12.5	1.5	55.8	0.0	0.2	1.3	55.8	55.9
Romania	1291	8.5	54.8	18.2	13.1	5.4	54.8	1.2	0.0	4.2	57.0	52.5
Russian Federation	1623	3.1	62.5	13.9	13.2	7.3	62.5	0.4	0.4	6.5	58.3	67.3
Singapore	1861	4.3	73.7	12.9	8.5	0.7	73.7	0.1	0.0	0.6	73.4	73.9
Slovak Republic	1308	5.0	63.6	13.9	14.2	3.3	63.6	0.1	0.1	3.2	59.4	67.8
Slovenia	1147	4.5	56.2	19.0	14.3	6.0	56.2	0.8	0.0	5.2	53.5	59.2
South Africa	3001	20.9	42.1	21.1	12.0	3.9	42.1	1.1	0.9	1.9	40.1	44.3
Thailand	2151	8.2	71.0	12.9	6.7	1.2	71.0	0.0	0.1	1.1	72.3	69.5
Tunisia	1893	6.0	53.8	16.9	13.4	9.9	53.8	3.4	0.6	5.9	51.5	56.2
Turkey	2940	8.1	41.2	25.0	20.8	4.9	41.2	0.0	0.0	4.8	38.2	43.4
United States	3374	6.7	54.9	21.6	15.7	1.1	54.9	0.0	0.1	1.0	55.4	54.4
International Avg.	.	7.3	54.4	18.8	14.9	4.7	54.4	0.5	0.3	3.9	52.8	55.8

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Algebra  
 Label: Number of matchsticks continuing pattern ( M012017 - C05 )  
 Item Type = MC Key = B

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	1481	12.0	65.5	8.3	4.0	9.8	0.4	65.5	0.0	0.2	0.2	69.0	61.9
Belgium (Flemish)	1967	11.4	66.7	7.6	3.0	10.6	0.6	66.7	0.5	0.0	0.1	69.5	64.0
Bulgaria	1229	16.1	57.3	7.2	2.3	13.9	3.3	57.3	0.1	0.3	2.9	59.0	55.2
Canada	3265	13.8	63.7	9.4	2.8	10.0	0.2	63.7	0.0	0.0	0.2	67.1	60.4
Chile	2200	19.8	40.6	9.5	5.7	19.9	4.4	40.6	0.0	1.8	2.6	42.9	38.2
Chinese Taipei	2175	12.3	70.3	8.2	2.3	6.8	0.1	70.3	0.0	0.0	0.1	69.4	71.2
Cyprus	1162	16.8	44.1	12.9	6.4	18.3	1.5	44.1	0.1	0.0	1.4	42.3	45.7
Czech Republic	1284	10.0	63.8	9.7	4.2	10.6	1.6	63.8	0.2	0.1	1.4	66.3	61.2
England	1099	13.4	57.1	8.4	5.3	14.1	1.7	57.1	0.1	0.2	1.4	56.8	57.2
Finland	1094	13.7	57.2	12.6	4.3	10.6	1.6	57.2	0.0	0.0	1.6	59.3	55.2
Hong Kong, SAR	1942	13.6	71.2	8.2	1.6	5.0	0.4	71.2	0.0	0.1	0.4	71.0	71.3
Hungary	1197	16.6	59.6	8.3	2.5	11.7	1.3	59.6	0.0	0.2	1.1	59.9	59.0
Indonesia	2193	22.5	38.8	11.9	5.2	20.3	1.4	38.8	0.1	0.2	1.1	38.7	38.9
Iran, Islamic Rep.	1985	21.1	35.7	13.5	5.8	22.0	2.0	35.7	0.0	0.2	1.8	32.2	38.1
Israel	1569	17.0	49.4	9.7	5.6	15.1	3.2	49.4	0.0	0.6	2.6	48.5	50.4
Italy	1260	18.3	46.8	8.1	4.6	20.7	1.6	46.8	0.0	0.3	1.2	45.5	48.0
Japan	1765	10.7	70.6	12.9	1.8	3.6	0.4	70.6	1.1	0.0	0.3	71.0	70.2
Jordan	1878	23.2	37.4	11.1	5.9	20.2	2.2	37.4	0.4	0.3	1.6	37.0	37.7
Korea, Rep. of	2295	13.5	74.7	6.2	1.6	3.8	0.2	74.7	0.0	0.0	0.1	75.6	73.8
Latvia (LSS)	1082	15.6	45.7	10.1	4.2	20.5	3.9	45.7	0.5	0.3	3.0	47.7	43.6
Lithuania	879	13.4	52.4	9.1	5.1	17.3	2.7	52.4	0.0	0.4	2.2	55.2	49.4
Macedonia, Rep. of	1497	16.9	50.2	9.9	4.4	14.6	4.0	50.2	0.0	0.8	3.2	50.5	50.0
Malaysia	2095	19.6	55.6	7.8	3.2	12.8	1.1	55.6	0.0	0.1	1.0	54.7	56.5
Moldova	1372	21.0	50.2	7.4	3.4	16.3	1.6	50.2	0.2	0.5	0.9	51.6	48.5
Morocco	1992	30.6	20.8	16.5	9.1	13.0	10.0	20.8	0.1	1.8	8.2	20.9	20.8
Netherlands	1111	12.8	59.7	14.2	3.7	9.1	0.4	59.7	0.0	0.0	0.4	61.4	58.0
New Zealand	1361	12.3	59.9	11.4	4.7	11.2	0.4	59.9	0.2	0.0	0.2	63.6	56.6
Philippines	2490	35.4	31.1	13.7	4.1	14.8	0.8	31.1	0.2	0.2	0.4	33.3	28.7
Romania	1291	18.3	49.6	8.8	3.4	17.6	2.2	49.6	0.2	0.0	2.1	52.7	46.5
Russian Federation	1623	18.4	53.4	8.9	3.6	12.4	3.3	53.4	0.1	0.5	2.6	54.4	52.2
Singapore	1861	8.3	75.9	6.4	1.6	7.6	0.2	75.9	0.1	0.0	0.1	77.6	74.3
Slovak Republic	1307	11.4	64.9	8.6	1.5	12.0	1.5	64.9	0.0	0.1	1.5	65.9	63.8
Slovenia	1147	13.0	61.2	9.2	2.9	12.4	1.3	61.2	0.0	0.0	1.3	61.7	60.5
South Africa	3001	40.1	18.9	12.7	5.6	19.4	3.3	18.9	0.5	0.9	1.9	18.7	19.2
Thailand	2151	55.9	15.7	10.7	4.8	12.2	0.7	15.7	0.0	0.1	0.6	15.3	16.2
Tunisia	1894	18.7	42.3	9.9	5.1	19.6	4.3	42.3	0.2	0.9	3.3	39.4	45.2
Turkey	2940	18.7	46.6	10.5	4.1	19.0	1.1	46.6	0.0	0.0	1.0	50.8	43.6
United States	3374	18.6	53.6	10.4	4.3	12.6	0.5	53.6	0.0	0.1	0.4	54.4	52.9
International Avg.	.	18.3	52.1	10.0	4.1	13.7	1.9	52.1	0.1	0.3	1.5	52.9	51.2

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Fractions and Number Sense  
 Label: Worst estimate of sum ( M012018 - C06 )  
 Item Type = MC Key = A

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	1481	82.5	7.6	4.6	4.6	0.8	82.5	0.0	0.2	0.6	83.3	81.5
Belgium (Flemish)	1967	79.2	11.5	3.3	5.7	0.2	79.2	0.1	0.0	0.1	82.0	76.4
Bulgaria	1229	71.9	10.1	9.7	3.9	4.5	71.9	1.1	0.3	3.1	71.3	72.2
Canada	3265	85.7	5.9	3.4	4.4	0.5	85.7	0.2	0.0	0.4	87.2	84.3
Chile	2200	50.0	15.5	14.8	9.9	9.8	50.0	0.0	2.1	7.7	49.3	50.6
Chinese Taipei	2175	81.1	8.3	5.6	4.9	0.0	81.1	0.0	0.0	0.0	80.3	82.0
Cyprus	1160	70.7	12.2	7.9	8.0	1.2	70.7	0.0	0.0	1.2	72.4	69.2
Czech Republic	1284	82.1	6.8	5.2	4.2	1.6	82.1	0.0	0.1	1.6	80.5	83.9
England	1099	80.6	7.8	4.5	5.3	1.7	80.6	0.0	0.8	0.9	79.9	81.3
Finland	1094	74.9	9.9	6.3	7.1	1.7	74.9	0.0	0.0	1.7	71.9	77.7
Hong Kong, SAR	1942	73.2	9.2	7.3	9.7	0.6	73.2	0.1	0.1	0.4	76.1	70.5
Hungary	1197	80.2	7.6	4.8	4.8	2.6	80.2	0.7	0.3	1.7	80.2	80.1
Indonesia	2193	53.0	17.2	16.0	11.5	2.3	53.0	0.0	0.2	2.1	53.8	52.0
Iran, Islamic Rep.	1985	52.7	16.2	15.6	12.2	3.3	52.7	0.0	0.2	3.2	47.1	56.5
Israel	1569	53.1	13.3	16.4	9.8	7.4	53.1	0.3	0.7	6.4	51.0	55.2
Italy	1260	47.3	9.1	25.8	16.3	1.6	47.3	0.0	0.3	1.3	46.9	47.7
Japan	1765	71.7	13.8	7.5	6.7	0.4	71.7	0.1	0.0	0.3	72.0	71.4
Jordan	1878	51.2	18.9	13.7	13.9	2.3	51.2	0.6	0.3	1.4	50.3	51.9
Korea, Rep. of	2295	79.3	6.9	7.5	6.3	0.1	79.3	0.0	0.1	0.0	77.9	80.6
Latvia (LSS)	1082	59.1	9.0	14.6	12.1	5.2	59.1	1.5	0.5	3.2	60.4	57.8
Lithuania	879	76.1	12.4	5.2	3.6	2.8	76.1	0.0	0.4	2.4	77.1	74.9
Macedonia, Rep. of	1497	65.4	12.1	9.0	4.8	8.7	65.4	0.4	1.0	7.4	64.2	66.5
Malaysia	2095	81.3	8.8	5.2	4.1	0.6	81.3	0.0	0.1	0.5	82.6	79.8
Moldova	1373	65.7	11.4	10.8	6.8	5.3	65.7	1.0	0.5	3.8	67.8	63.1
Morocco	1992	32.7	19.6	24.9	14.0	8.9	32.7	0.1	2.1	6.6	31.7	33.4
Netherlands	1111	75.7	11.3	6.4	5.6	1.0	75.7	0.4	0.0	0.7	75.0	76.4
New Zealand	1361	79.2	7.4	6.2	6.6	0.6	79.2	0.1	0.0	0.5	79.5	78.9
Philippines	2490	39.5	18.9	18.8	22.1	0.8	39.5	0.1	0.2	0.4	39.5	39.4
Romania	1290	59.9	11.1	14.3	9.0	5.6	59.9	1.7	0.0	3.9	63.2	56.7
Russian Federation	1623	72.8	9.7	7.7	5.8	4.1	72.8	0.6	0.6	2.9	70.9	74.9
Singapore	1861	88.2	5.6	2.4	3.7	0.1	88.2	0.0	0.0	0.1	89.9	86.6
Slovak Republic	1307	83.5	6.6	4.9	3.9	1.1	83.5	0.1	0.1	0.9	83.6	83.4
Slovenia	1147	75.5	7.1	8.5	6.8	2.2	75.5	0.8	0.0	1.3	76.4	74.5
South Africa	3001	42.8	16.2	23.1	13.3	4.6	42.8	0.7	1.1	2.9	42.6	43.1
Thailand	2151	58.9	15.5	12.0	12.6	1.0	58.9	0.0	0.1	0.9	62.9	54.2
Tunisia	1893	41.9	10.9	21.2	10.5	15.4	41.9	9.7	1.1	4.7	38.6	45.1
Turkey	2940	63.1	12.3	12.7	10.2	1.7	63.1	0.0	0.0	1.7	60.6	64.8
United States	3374	74.4	5.9	9.6	9.7	0.4	74.4	0.0	0.1	0.4	75.4	73.3
International Avg.	.	67.3	11.0	10.5	8.3	3.0	67.3	0.5	0.4	2.1	67.2	67.2

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Geometry  
 Label: Angles in symmetric polygon ( M012019 - D07 )  
 Item Type = MC Key = C

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	1517	11.1	4.0	61.6	5.9	16.2	1.2	61.6	0.2	0.0	1.0	64.0	59.3
Belgium (Flemish)	1978	8.8	2.8	64.8	4.9	16.8	2.0	64.8	0.2	0.0	1.8	67.1	62.5
Bulgaria	1228	12.1	1.4	80.0	1.5	4.0	1.1	80.0	0.1	0.3	0.7	79.8	80.1
Canada	3273	7.3	2.8	72.0	6.2	11.1	0.7	72.0	0.0	0.0	0.7	71.6	72.7
Chile	2209	13.4	6.4	35.5	12.8	23.7	8.2	35.5	0.0	2.2	6.1	34.2	36.7
Chinese Taipei	2154	7.5	2.7	73.7	5.1	10.6	0.4	73.7	0.1	0.0	0.3	74.8	72.7
Cyprus	1159	12.8	2.5	68.8	4.4	9.7	1.8	68.8	0.1	0.0	1.7	69.8	67.9
Czech Republic	1307	9.7	3.4	72.9	4.2	8.1	1.7	72.9	0.3	0.0	1.3	68.2	78.1
England	1105	8.9	2.9	46.0	9.7	29.2	3.3	46.0	0.6	0.7	2.0	44.0	47.8
Finland	1088	6.6	4.0	68.7	7.3	12.2	1.2	68.7	0.0	0.0	1.2	71.8	65.6
Hong Kong, SAR	1943	9.2	1.6	82.5	2.3	4.1	0.3	82.5	0.0	0.0	0.3	82.8	82.2
Hungary	1196	6.8	2.7	56.4	7.0	19.2	7.8	56.4	1.0	0.2	6.6	53.9	59.6
Indonesia	2202	16.4	4.5	43.2	11.9	22.6	1.3	43.2	0.0	0.0	1.3	40.2	46.4
Iran, Islamic Rep.	1988	11.8	4.8	50.5	8.7	21.2	3.0	50.5	0.0	0.4	2.6	45.5	53.9
Israel	1560	14.5	3.6	58.4	6.7	13.4	3.3	58.4	0.2	0.9	2.2	57.9	58.9
Italy	1255	9.5	2.7	65.5	5.4	13.1	3.7	65.5	0.0	0.2	3.5	62.8	68.0
Japan	1780	10.6	0.7	80.2	2.1	6.0	0.3	80.2	0.2	0.1	0.1	81.0	79.5
Jordan	1912	24.7	4.0	43.7	8.4	17.1	2.1	43.7	0.7	0.1	1.3	44.2	43.3
Korea, Rep. of	2296	11.0	1.2	82.0	2.6	3.2	0.1	82.0	0.0	0.0	0.1	81.9	82.0
Latvia (LSS)	1067	7.4	2.1	79.1	2.4	7.5	1.6	79.1	0.1	0.5	1.0	75.5	83.6
Lithuania	886	9.2	3.4	70.8	3.7	9.6	3.3	70.8	0.0	0.1	3.2	73.0	68.3
Macedonia, Rep. of	1498	11.2	1.8	65.1	5.0	11.9	4.9	65.1	0.3	0.4	4.2	65.3	64.8
Malaysia	2086	8.4	5.7	59.1	10.1	14.1	2.5	59.1	0.0	0.1	2.4	56.3	62.4
Moldova	1376	12.4	1.7	70.6	3.5	9.5	2.3	70.6	0.1	0.7	1.4	70.4	70.8
Morocco	2061	15.2	12.7	36.1	14.2	16.7	5.2	36.1	0.1	1.6	3.4	34.1	37.5
Netherlands	1110	8.5	3.0	64.3	5.3	17.3	1.6	64.3	0.0	0.6	1.0	64.1	64.6
New Zealand	1350	9.4	5.2	53.7	8.8	21.7	1.2	53.7	0.3	0.1	0.9	57.1	50.3
Philippines	2464	25.0	7.2	22.8	12.7	30.5	1.8	22.8	0.4	0.3	1.1	21.9	23.9
Romania	1288	16.6	2.5	65.9	4.3	8.6	2.1	65.9	0.1	0.2	1.8	65.8	66.0
Russian Federation	1617	8.1	2.9	78.7	2.5	5.8	2.0	78.7	0.0	0.8	1.2	79.5	77.8
Singapore	1871	12.6	0.8	81.9	1.4	3.1	0.1	81.9	0.0	0.0	0.1	81.0	82.9
Slovak Republic	1301	10.4	2.9	76.9	4.9	3.8	1.1	76.9	0.1	0.4	0.6	76.8	77.1
Slovenia	1166	9.6	3.5	66.3	4.5	12.6	3.5	66.3	0.1	0.0	3.5	65.4	67.3
South Africa	3059	23.7	4.7	18.8	8.8	39.1	4.8	18.8	1.5	1.7	1.7	17.6	20.3
Thailand	2150	15.6	4.8	58.3	7.5	13.3	0.4	58.3	0.0	0.0	0.4	57.3	59.5
Tunisia	1884	10.8	2.3	77.2	3.6	3.9	2.2	77.2	0.5	0.4	1.3	73.1	81.3
Turkey	2942	18.1	11.4	35.1	12.2	20.5	2.7	35.1	0.0	0.1	2.6	34.1	35.9
United States	3354	10.1	4.3	52.3	11.6	21.1	0.5	52.3	0.0	0.1	0.4	50.3	54.2
International Avg.	.	12.0	3.7	61.6	6.4	14.0	2.3	61.6	0.2	0.3	1.8	60.9	62.3

DIFF = Item Difficulty Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Algebra  
 Label: Value of x from equivalent ratios ( M012020 - D08 )  
 Item Type = MC Key = C

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	1517	6.5	9.3	80.0	2.7	1.5	80.0	0.0	0.0	1.5	79.6	80.4
Belgium (Flemish)	1978	5.6	7.4	75.1	7.8	4.1	75.1	0.2	0.0	3.9	78.0	72.3
Bulgaria	1228	7.0	11.3	67.8	5.8	8.1	67.8	0.1	0.3	7.7	70.5	65.0
Canada	3273	4.9	8.2	83.6	2.5	0.7	83.6	0.0	0.1	0.6	83.0	84.4
Chile	2209	14.4	14.3	49.4	9.2	12.8	49.4	0.0	2.8	10.0	47.6	51.2
Chinese Taipei	2154	2.5	4.8	89.8	2.7	0.2	89.8	0.0	0.0	0.1	90.3	89.3
Cyprus	1156	5.3	11.2	69.8	9.7	3.9	69.8	0.1	0.0	3.8	70.5	69.3
Czech Republic	1307	8.4	15.9	69.7	3.3	2.7	69.7	0.0	0.0	2.7	63.9	76.0
England	1105	7.5	13.9	72.8	3.4	2.4	72.8	0.0	0.7	1.7	68.3	76.8
Finland	1088	11.7	18.8	63.2	3.5	2.9	63.2	0.0	0.0	2.8	58.2	68.2
Hong Kong, SAR	1943	2.7	6.7	87.9	2.3	0.5	87.9	0.0	0.0	0.4	86.7	89.0
Hungary	1196	3.9	9.4	75.3	5.7	5.8	75.3	0.0	0.3	5.5	75.7	74.6
Indonesia	2198	10.1	12.0	59.0	15.1	3.8	59.0	0.0	0.0	3.7	57.5	60.5
Iran, Islamic Rep.	1988	11.0	14.2	58.1	12.1	4.7	58.1	0.0	0.7	4.1	56.2	59.3
Israel	1560	11.1	12.7	60.6	6.3	9.3	60.6	0.1	0.9	8.2	55.5	66.1
Italy	1255	4.8	8.5	73.8	7.7	5.2	73.8	0.0	0.3	4.8	72.7	74.9
Japan	1780	2.9	9.8	81.5	4.8	1.0	81.5	0.0	0.1	1.0	82.0	81.0
Jordan	1912	12.5	14.3	61.4	9.3	2.6	61.4	0.5	0.1	2.0	57.3	65.0
Korea, Rep. of	2296	1.5	4.2	93.1	1.2	0.0	93.1	0.0	0.0	0.0	93.4	92.9
Latvia (LSS)	1067	8.2	12.5	66.3	7.7	5.4	66.3	0.0	0.6	4.8	63.8	69.3
Lithuania	886	10.4	11.0	57.8	10.9	10.0	57.8	0.0	0.2	9.8	59.4	56.0
Macedonia, Rep. of	1498	6.3	8.8	66.1	10.3	8.5	66.1	0.1	0.6	7.8	67.7	64.6
Malaysia	2086	3.6	7.4	84.0	2.5	2.5	84.0	0.0	0.1	2.3	83.6	84.6
Moldova	1377	6.0	10.3	60.3	17.5	6.0	60.3	0.4	0.9	4.7	60.1	60.5
Morocco	2062	16.4	20.5	34.5	19.1	9.5	34.5	0.1	1.8	7.6	33.2	35.5
Netherlands	1110	7.9	10.1	70.3	8.4	3.4	70.3	0.1	0.6	2.7	68.7	72.1
New Zealand	1350	8.5	12.5	73.4	3.6	2.1	73.4	0.2	0.1	1.8	74.1	72.6
Philippines	2464	18.2	13.9	47.0	19.3	1.6	47.0	0.0	0.5	1.0	48.6	45.2
Romania	1288	11.1	10.3	63.6	10.7	4.3	63.6	0.1	0.4	3.9	65.7	61.5
Russian Federation	1617	3.4	7.3	75.8	8.1	5.3	75.8	0.1	0.8	4.4	76.3	75.3
Singapore	1871	0.9	2.2	95.6	0.8	0.5	95.6	0.0	0.0	0.5	95.5	95.6
Slovak Republic	1301	6.7	12.2	68.1	6.4	6.6	68.1	0.0	0.4	6.1	65.8	70.5
Slovenia	1166	4.9	10.3	77.2	4.3	3.3	77.2	0.1	0.0	3.2	79.2	74.9
South Africa	3058	19.2	14.1	37.9	24.5	4.3	37.9	0.3	2.0	2.0	36.1	39.9
Thailand	2150	7.3	12.0	71.6	8.4	0.8	71.6	0.0	0.0	0.7	71.6	71.6
Tunisia	1884	7.8	11.8	59.8	12.6	8.0	59.8	0.8	0.6	6.6	56.8	62.8
Turkey	2942	9.3	12.6	58.7	15.6	3.8	58.7	0.0	0.1	3.7	58.9	58.5
United States	3354	7.0	10.1	77.8	3.9	1.1	77.8	0.0	0.1	1.0	77.6	77.9
International Avg.	.	7.8	11.0	68.9	8.1	4.2	68.9	0.1	0.4	3.7	68.2	69.6

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Fractions and Number Sense  
 Label: Smallest simple fraction ( M012021 - D09 )  
 Item Type = MC Key = A

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	1517	80.2	4.4	6.7	8.3	0.4	80.2	0.1	0.0	0.2	77.4	82.8
Belgium (Flemish)	1978	82.4	10.3	1.6	5.3	0.4	82.4	0.1	0.2	0.1	80.5	84.3
Bulgaria	1228	58.8	12.2	1.8	26.3	1.0	58.8	0.0	0.3	0.6	55.5	62.2
Canada	3273	83.4	4.3	3.8	8.3	0.2	83.4	0.0	0.1	0.1	81.4	85.7
Chile	2209	20.6	7.4	5.0	62.6	4.2	20.6	0.0	3.0	1.2	18.0	23.3
Chinese Taipei	2154	84.8	4.3	1.1	9.7	0.1	84.8	0.0	0.0	0.1	83.9	85.6
Cyprus	1161	73.4	13.1	3.2	10.0	0.3	73.4	0.1	0.0	0.3	69.2	77.3
Czech Republic	1307	65.3	9.6	10.8	14.0	0.3	65.3	0.0	0.0	0.3	58.4	72.9
England	1105	72.6	3.1	9.7	13.4	1.2	72.6	0.1	0.8	0.3	69.3	75.5
Finland	1088	85.2	3.8	1.3	9.3	0.4	85.2	0.0	0.0	0.4	82.0	88.4
Hong Kong, SAR	1943	92.5	2.8	1.4	3.1	0.2	92.5	0.0	0.0	0.2	91.9	93.2
Hungary	1196	71.3	8.3	2.4	17.0	1.1	71.3	0.1	0.3	0.7	69.0	73.8
Indonesia	2198	37.5	20.8	6.9	34.3	0.5	37.5	0.0	0.0	0.4	36.0	39.2
Iran, Islamic Rep.	1988	42.5	9.0	2.1	44.0	2.4	42.5	0.0	0.7	1.8	34.5	47.9
Israel	1560	74.5	9.6	5.9	7.6	2.4	74.5	0.2	1.4	0.8	71.1	78.2
Italy	1255	45.7	11.5	3.1	38.1	1.6	45.7	0.1	0.5	1.0	41.6	49.6
Japan	1780	88.5	3.0	1.0	7.3	0.2	88.5	0.0	0.1	0.1	88.9	88.2
Jordan	1912	51.5	7.5	14.0	26.1	0.9	51.5	0.4	0.1	0.4	50.7	52.2
Korea, Rep. of	2296	82.6	5.9	1.0	10.3	0.1	82.6	0.0	0.0	0.1	79.3	85.9
Latvia (LSS)	1067	60.6	19.4	2.2	16.6	1.3	60.6	0.5	0.6	0.2	55.2	67.2
Lithuania	886	50.3	14.3	2.4	32.2	0.8	50.3	0.0	0.2	0.5	50.7	49.9
Macedonia, Rep. of	1498	44.0	23.6	2.2	28.1	2.1	44.0	0.1	0.6	1.3	41.3	46.8
Malaysia	2086	64.9	19.1	1.8	13.9	0.3	64.9	0.0	0.1	0.2	63.3	66.7
Moldova	1377	38.3	14.1	4.5	41.1	2.0	38.3	0.0	1.1	1.0	36.0	40.9
Morocco	2061	24.9	21.5	9.6	39.2	4.8	24.9	0.2	2.1	2.6	22.1	26.8
Netherlands	1110	86.5	3.1	1.2	8.6	0.6	86.5	0.0	0.6	0.0	84.6	88.5
New Zealand	1351	74.7	5.4	6.5	12.9	0.5	74.7	0.3	0.1	0.1	76.7	72.6
Philippines	2464	38.9	24.0	8.8	26.9	1.4	38.9	0.0	0.6	0.7	38.7	39.2
Romania	1288	47.3	11.9	2.8	36.8	1.1	47.3	0.1	0.6	0.4	45.6	49.0
Russian Federation	1617	59.2	13.0	1.9	23.9	2.0	59.2	0.0	1.2	0.9	54.8	63.8
Singapore	1871	90.4	5.6	1.1	2.8	0.1	90.4	0.0	0.0	0.1	89.2	91.6
Slovak Republic	1301	66.8	7.9	8.7	15.8	0.9	66.8	0.0	0.4	0.4	63.1	70.6
Slovenia	1166	74.7	8.7	4.0	12.3	0.3	74.7	0.0	0.0	0.3	71.7	78.0
South Africa	3059	27.9	8.3	8.7	51.3	3.8	27.9	0.5	2.4	0.9	25.6	30.4
Thailand	2150	41.8	18.5	3.1	36.3	0.3	41.8	0.0	0.0	0.2	39.0	45.2
Tunisia	1884	61.1	8.4	5.5	22.9	2.1	61.1	0.5	0.7	1.0	53.3	68.9
Turkey	2942	38.8	12.7	1.4	46.4	0.7	38.8	0.1	0.1	0.5	33.7	42.5
United States	3354	75.5	9.6	4.5	10.1	0.3	75.5	0.0	0.1	0.1	71.0	79.9
International Avg.	.	62.1	10.5	4.3	21.9	1.1	62.1	0.1	0.5	0.5	59.3	64.9

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Algebra  
 Label: Equation to determine cost of cards ( M012022 - D10 )  
 Item Type = MC Key = A

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	1517	55.1	11.7	10.5	14.2	6.9	1.6	55.1	0.2	0.0	1.3	58.9	51.5
Belgium (Flemish)	1978	59.8	18.1	12.0	4.3	2.8	3.1	59.8	0.2	0.2	2.6	61.1	58.6
Bulgaria	1228	61.9	8.1	5.1	17.0	4.3	3.6	61.9	0.8	0.3	2.5	63.1	60.6
Canada	3273	56.1	10.9	10.1	18.0	4.0	0.9	56.1	0.1	0.1	0.7	55.7	56.4
Chile	2209	36.6	15.7	14.5	14.8	9.1	9.4	36.6	0.0	3.2	6.1	40.4	32.7
Chinese Taipei	2154	78.0	4.9	5.8	8.3	2.8	0.1	78.0	0.0	0.0	0.1	81.7	74.3
Cyprus	1154	45.7	12.7	12.6	16.7	10.3	2.0	45.7	0.1	0.0	1.9	48.6	43.2
Czech Republic	1307	50.7	14.0	7.2	19.1	7.0	2.1	50.7	0.0	0.0	2.1	50.5	50.8
England	1105	53.4	14.0	14.1	12.1	3.6	2.7	53.4	0.6	0.9	1.1	56.5	50.6
Finland	1088	47.7	16.7	10.0	17.9	3.9	3.8	47.7	0.0	0.0	3.8	46.4	49.0
Hong Kong, SAR	1943	74.1	4.3	5.6	11.9	3.8	0.4	74.1	0.0	0.0	0.3	77.4	70.7
Hungary	1196	48.1	10.4	10.2	24.7	4.1	2.5	48.1	0.3	0.3	1.9	53.0	42.7
Indonesia	2198	52.5	12.3	8.8	13.9	10.6	2.0	52.5	0.0	0.1	1.9	56.9	47.9
Iran, Islamic Rep.	1988	30.4	11.9	15.4	15.6	22.7	4.1	30.4	0.0	0.8	3.3	35.3	27.0
Israel	1560	42.3	13.3	14.0	20.7	4.6	5.1	42.3	0.3	1.4	3.5	40.3	44.5
Italy	1255	42.4	11.9	10.8	25.4	4.2	5.4	42.4	0.0	0.6	4.8	46.6	38.4
Japan	1780	75.0	4.1	5.0	13.3	2.2	0.4	75.0	0.0	0.1	0.3	77.6	72.4
Jordan	1912	45.6	10.5	16.7	14.4	10.3	2.5	45.6	0.4	0.1	2.0	49.4	42.4
Korea, Rep. of	2296	73.9	6.0	5.0	12.3	2.8	0.0	73.9	0.0	0.0	0.0	76.3	71.5
Latvia (LSS)	1067	29.5	18.2	6.5	34.6	6.5	4.7	29.5	0.4	0.6	3.7	27.2	32.3
Lithuania	886	41.6	17.7	7.4	22.1	7.5	3.7	41.6	0.0	0.2	3.5	42.8	40.3
Macedonia, Rep. of	1498	51.2	8.6	9.0	11.7	9.6	9.9	51.2	0.2	0.6	9.1	53.4	49.0
Malaysia	2086	41.7	15.9	7.9	25.9	7.3	1.3	41.7	0.0	0.1	1.2	43.8	39.3
Moldova	1377	33.1	12.0	8.7	30.6	12.3	3.4	33.1	0.0	1.1	2.3	34.0	32.1
Morocco	2062	24.4	23.4	20.0	16.4	6.5	9.3	24.4	0.4	2.2	6.8	27.1	22.4
Netherlands	1110	73.8	6.9	7.3	9.7	1.0	1.3	73.8	0.2	0.6	0.5	75.4	72.3
New Zealand	1351	52.2	13.7	14.2	13.1	5.2	1.5	52.2	0.3	0.1	1.1	57.8	46.6
Philippines	2464	51.0	15.2	13.0	9.0	9.9	1.9	51.0	0.0	0.7	1.1	55.9	45.4
Romania	1288	45.1	9.9	9.9	17.0	13.9	4.1	45.1	0.3	0.7	3.2	49.1	41.2
Russian Federation	1617	54.5	7.5	6.6	14.6	11.5	5.2	54.5	0.0	1.2	4.1	55.7	53.2
Singapore	1871	64.0	6.3	5.1	17.2	7.0	0.5	64.0	0.0	0.0	0.5	64.8	63.3
Slovak Republic	1301	47.2	12.8	9.6	21.0	5.8	3.7	47.2	0.0	0.5	3.1	47.4	47.0
Slovenia	1166	55.3	9.8	7.4	24.5	1.5	1.5	55.3	0.1	0.0	1.4	56.2	54.2
South Africa	3059	27.3	15.9	19.8	17.2	14.2	5.6	27.3	0.3	2.6	2.6	27.4	27.2
Thailand	2150	68.7	7.6	9.5	7.5	6.3	0.4	68.7	0.0	0.0	0.3	71.1	65.8
Tunisia	1884	21.3	18.6	15.8	26.2	11.0	7.1	21.3	3.8	0.9	2.3	22.1	20.6
Turkey	2942	41.0	12.0	12.7	9.5	21.8	3.0	41.0	0.0	0.1	2.9	44.7	38.2
United States	3354	54.8	10.7	12.9	17.2	3.7	0.7	54.8	0.0	0.2	0.6	57.9	51.7
International Avg.	.	50.2	12.0	10.4	16.8	7.4	3.2	50.2	0.2	0.6	2.4	52.4	48.1

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Measurement  
 Label: Units to measure mass of egg ( M012023 - D11 )  
 Item Type = MC Key = C

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	1517	1.1	2.6	91.4	4.0	0.9	91.4	0.1	0.1	0.6	90.6	92.2
Belgium (Flemish)	1978	2.3	2.8	91.8	1.0	2.1	91.8	1.6	0.2	0.3	94.2	89.4
Bulgaria	1228	1.0	1.1	93.4	3.2	1.3	93.4	0.3	0.3	0.6	93.7	93.2
Canada	3273	2.9	2.3	85.1	9.2	0.5	85.1	0.1	0.2	0.3	83.5	86.9
Chile	2209	6.7	5.6	68.9	14.1	4.8	68.9	0.0	3.6	1.2	70.5	67.2
Chinese Taipei	2154	0.4	1.6	73.4	24.5	0.1	73.4	0.0	0.0	0.1	68.7	78.1
Cyprus	1161	3.8	3.4	79.3	12.6	0.9	79.3	0.0	0.1	0.8	80.3	78.4
Czech Republic	1307	0.4	2.0	94.5	2.5	0.6	94.5	0.1	0.0	0.5	92.9	96.3
England	1105	1.3	2.6	85.6	9.2	1.2	85.6	0.0	0.9	0.3	83.4	87.6
Finland	1088	3.0	7.5	87.3	1.4	0.9	87.3	0.0	0.3	0.6	88.0	86.5
Hong Kong, SAR	1943	2.2	2.6	81.7	13.0	0.5	81.7	0.1	0.1	0.4	81.3	82.0
Hungary	1196	0.9	1.0	95.9	1.2	0.9	95.9	0.1	0.3	0.5	95.8	96.3
Indonesia	2198	2.2	1.5	34.4	61.2	0.6	34.4	0.0	0.1	0.5	29.5	39.6
Iran, Islamic Rep.	1988	3.2	5.7	68.2	20.6	2.4	68.2	0.0	0.9	1.5	63.3	71.4
Israel	1560	4.1	6.6	75.2	10.8	3.3	75.2	0.2	1.5	1.6	73.2	77.4
Italy	1255	2.2	3.1	90.3	3.0	1.5	90.3	0.0	0.7	0.8	90.9	89.7
Japan	1780	0.5	0.3	97.9	1.2	0.1	97.9	0.0	0.1	0.0	98.5	97.2
Jordan	1912	7.6	7.5	72.9	10.8	1.2	72.9	0.2	0.2	0.9	71.6	74.1
Korea, Rep. of	2296	0.4	2.6	93.5	3.4	0.1	93.5	0.0	0.0	0.1	93.5	93.5
Latvia (LSS)	1067	0.5	4.3	88.9	4.6	1.8	88.9	0.6	0.6	0.5	89.8	87.8
Lithuania	886	1.7	7.5	87.6	1.9	1.3	87.6	0.0	0.6	0.8	87.1	88.2
Macedonia, Rep. of	1498	3.6	3.7	87.2	3.6	2.1	87.2	0.1	0.8	1.2	86.4	87.9
Malaysia	2086	1.6	2.3	88.2	7.7	0.2	88.2	0.0	0.1	0.1	86.4	90.3
Moldova	1375	5.0	3.7	82.2	7.4	1.8	82.2	0.1	1.2	0.6	83.3	80.8
Morocco	2063	13.1	14.4	54.6	13.3	4.6	54.6	0.2	2.4	2.0	53.7	55.1
Netherlands	1110	1.7	4.4	89.4	3.9	0.6	89.4	0.0	0.6	0.1	88.1	90.7
New Zealand	1351	1.4	2.7	87.0	8.1	0.9	87.0	0.2	0.1	0.6	87.1	86.8
Philippines	2464	8.4	6.7	46.5	36.8	1.6	46.5	0.0	0.9	0.6	44.0	49.4
Romania	1288	3.0	2.5	84.7	8.3	1.6	84.7	0.4	0.7	0.5	86.1	83.3
Russian Federation	1617	2.6	2.0	91.5	2.1	1.7	91.5	0.1	1.3	0.3	90.7	92.4
Singapore	1871	1.2	1.8	92.6	4.2	0.2	92.6	0.1	0.0	0.2	91.4	93.8
Slovak Republic	1301	0.2	1.1	96.2	1.6	0.9	96.2	0.3	0.5	0.1	94.2	98.2
Slovenia	1166	0.6	1.4	93.3	4.3	0.3	93.3	0.0	0.0	0.3	92.1	94.7
South Africa	3059	15.8	10.6	47.6	21.4	4.6	47.6	0.2	3.0	1.5	45.8	49.6
Thailand	2150	1.9	9.3	69.4	19.2	0.3	69.4	0.0	0.0	0.2	67.9	71.2
Tunisia	1884	3.2	4.4	85.9	3.8	2.6	85.9	0.8	1.0	0.8	84.0	87.9
Turkey	2942	2.8	2.3	77.9	15.8	1.1	77.9	0.0	0.1	1.0	71.3	82.7
United States	3354	5.5	8.9	67.7	16.5	1.3	67.7	0.1	0.2	1.0	63.9	71.4
International Avg.	.	3.2	4.1	81.0	10.3	1.4	81.0	0.2	0.6	0.6	79.9	82.1

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent



Mathematics: Fractions and Number Sense  
 Label: Estimate of point P on number line ( M012024 - D12 )  
 Item Type = MC Key = B

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	1517	11.7	82.9	3.4	1.8	0.2	82.9	0.0	0.1	0.1	82.0	83.8
Belgium (Flemish)	1978	10.7	84.1	2.3	2.3	0.7	84.1	0.0	0.2	0.5	82.4	85.7
Bulgaria	1228	26.4	63.4	3.8	4.7	1.8	63.4	0.1	0.4	1.3	62.3	64.3
Canada	3273	12.1	83.6	2.7	1.1	0.4	83.6	0.0	0.2	0.2	83.9	83.5
Chile	2209	25.3	53.8	7.9	6.1	6.9	53.8	0.0	3.8	3.1	50.8	56.9
Chinese Taipei	2154	14.1	81.0	2.8	2.0	0.1	81.0	0.0	0.0	0.0	81.0	81.1
Cyprus	1159	46.5	44.1	3.6	4.5	1.3	44.1	0.0	0.2	1.1	40.1	47.7
Czech Republic	1306	15.7	65.1	10.7	7.5	1.0	65.1	0.1	0.0	0.9	60.9	69.7
England	1105	7.5	87.7	2.8	0.7	1.3	87.7	0.0	1.0	0.3	86.8	88.5
Finland	1088	6.4	90.0	2.7	0.3	0.5	90.0	0.0	0.3	0.3	88.3	91.8
Hong Kong, SAR	1943	8.9	85.6	4.5	0.6	0.4	85.6	0.1	0.1	0.1	83.6	87.6
Hungary	1196	13.2	79.8	2.7	2.5	1.8	79.8	0.7	0.4	0.6	79.0	80.8
Indonesia	2202	38.9	46.1	6.2	7.8	1.1	46.1	0.0	0.1	0.9	45.1	47.1
Iran, Islamic Rep.	1988	44.6	32.2	14.5	6.0	2.7	32.2	0.0	1.0	1.7	29.7	33.8
Israel	1560	22.2	64.1	5.9	4.6	3.2	64.1	0.0	1.6	1.5	62.7	65.6
Italy	1255	17.6	68.5	5.5	6.8	1.7	68.5	0.0	0.8	0.9	64.9	71.9
Japan	1780	4.6	93.2	1.1	0.8	0.2	93.2	0.0	0.1	0.1	93.5	92.9
Jordan	1912	26.3	52.7	9.5	10.4	1.0	52.7	0.3	0.2	0.5	49.2	55.9
Korea, Rep. of	2296	16.4	80.7	1.7	1.1	0.1	80.7	0.0	0.0	0.1	80.3	81.0
Latvia (LSS)	1067	14.8	77.9	1.9	4.3	1.1	77.9	0.0	0.6	0.5	75.0	81.4
Lithuania	886	21.0	61.4	8.0	8.3	1.3	61.4	0.0	0.6	0.8	61.2	61.7
Macedonia, Rep. of	1498	36.0	49.1	3.5	8.3	3.2	49.1	0.0	0.9	2.4	45.5	52.7
Malaysia	2086	15.5	78.1	2.9	3.2	0.3	78.1	0.0	0.1	0.2	77.5	78.8
Moldova	1377	22.0	62.9	5.7	7.4	2.1	62.9	0.0	1.2	1.0	60.6	65.5
Morocco	2059	24.4	43.0	12.5	15.2	4.9	43.0	0.0	2.5	2.4	41.5	43.9
Netherlands	1110	6.7	90.0	1.6	1.1	0.7	90.0	0.1	0.6	0.0	89.4	90.6
New Zealand	1350	16.0	79.6	2.2	1.9	0.3	79.6	0.1	0.1	0.2	80.9	78.3
Philippines	2464	30.9	50.6	8.8	8.2	1.6	50.6	0.1	0.9	0.7	49.9	51.3
Romania	1288	33.6	52.8	5.8	5.7	2.1	52.8	0.3	0.7	1.1	51.2	54.4
Russian Federation	1617	14.3	76.9	2.7	4.1	2.0	76.9	0.0	1.4	0.6	75.7	78.3
Singapore	1871	5.6	91.3	1.9	1.2	0.0	91.3	0.0	0.0	0.0	90.0	92.6
Slovak Republic	1301	11.0	80.0	3.4	4.9	0.6	80.0	0.0	0.5	0.1	78.1	82.0
Slovenia	1166	15.1	77.9	3.2	3.5	0.3	77.9	0.0	0.0	0.3	78.2	77.6
South Africa	3059	37.9	38.1	10.6	9.1	4.3	38.1	0.2	3.1	1.0	37.3	39.1
Thailand	2150	30.6	63.9	2.2	3.2	0.1	63.9	0.0	0.0	0.1	61.8	66.3
Tunisia	1872	18.8	40.2	18.1	19.8	3.1	40.2	0.3	1.1	1.7	34.9	45.6
Turkey	2942	18.1	58.6	17.8	4.9	0.6	58.6	0.0	0.1	0.5	56.4	60.2
United States	3354	12.2	80.8	4.9	1.7	0.4	80.8	0.0	0.2	0.2	78.9	82.6
International Avg.	.	19.8	68.2	5.6	4.9	1.5	68.2	0.1	0.7	0.7	66.6	69.8

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Data Representation, Analysis and Probability  
 Label: Intersection point of distance/time graphs ( M012025 - E01 )  
 Item Type = MC Key = D

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	1504	2.8	3.0	3.1	79.7	10.4	0.9	79.7	0.1	0.0	0.8	77.4	82.1
Belgium (Flemish)	1961	6.3	5.1	4.4	74.0	8.2	2.0	74.0	0.2	0.0	1.8	74.8	73.3
Bulgaria	1221	2.2	8.2	5.5	75.0	3.8	5.3	75.0	0.5	0.0	4.8	72.1	78.0
Canada	3298	3.6	4.2	3.6	76.8	11.2	0.6	76.8	0.1	0.0	0.6	74.0	79.6
Chile	2197	2.7	9.3	11.0	49.1	23.9	4.1	49.1	0.0	0.6	3.5	44.0	54.3
Chinese Taipei	2176	2.0	3.7	3.5	83.5	7.0	0.3	83.5	0.0	0.0	0.2	81.4	85.6
Cyprus	1168	1.4	13.2	7.2	66.4	10.1	1.6	66.4	0.4	0.0	1.2	64.5	68.5
Czech Republic	1300	0.8	3.9	3.7	79.2	10.5	1.8	79.2	0.4	0.1	1.3	76.5	82.5
England	1102	3.4	4.4	3.5	77.3	10.9	0.5	77.3	0.1	0.1	0.4	74.5	79.9
Finland	1091	7.1	4.0	4.7	74.6	8.2	1.4	74.6	0.0	0.0	1.4	75.4	73.8
Hong Kong, SAR	1950	3.2	2.5	3.4	87.1	3.1	0.6	87.1	0.1	0.0	0.6	87.5	86.7
Hungary	1203	2.7	2.9	3.1	83.0	5.9	2.5	83.0	0.2	0.1	2.2	79.8	86.4
Indonesia	2197	3.4	11.8	9.0	49.9	24.9	1.0	49.9	0.0	0.0	1.0	46.3	53.6
Iran, Islamic Rep.	1974	6.2	30.1	14.2	26.4	19.5	3.7	26.4	0.0	0.2	3.6	23.4	28.4
Israel	1577	4.2	9.9	7.9	57.8	16.0	4.1	57.8	0.3	0.4	3.5	55.0	60.6
Italy	1254	2.2	5.2	8.5	70.5	12.0	1.6	70.5	0.0	0.0	1.6	67.3	73.9
Japan	1774	0.3	0.5	0.8	97.1	1.1	0.2	97.1	0.0	0.1	0.1	97.1	97.2
Jordan	1875	6.4	11.3	10.9	53.2	16.1	2.1	53.2	0.6	0.0	1.5	55.1	51.4
Korea, Rep. of	2294	2.6	4.8	3.8	83.4	5.2	0.2	83.4	0.0	0.0	0.1	82.2	84.6
Latvia (LSS)	1087	1.1	6.7	4.5	77.0	8.6	2.1	77.0	0.4	0.1	1.6	76.7	77.4
Lithuania	900	2.2	4.8	2.6	79.0	9.9	1.6	79.0	0.0	0.0	1.6	77.2	81.0
Macedonia, Rep. of	1506	2.8	16.7	8.2	58.8	8.1	5.5	58.8	0.6	0.1	4.8	57.4	60.0
Malaysia	2093	2.8	9.2	6.0	57.8	22.7	1.5	57.8	0.0	0.0	1.4	57.1	58.7
Moldova	1388	4.0	8.6	9.1	65.2	11.7	1.3	65.2	0.8	0.0	0.5	64.1	66.5
Morocco	2016	4.4	9.8	9.7	44.6	24.7	6.9	44.6	2.2	0.3	4.5	40.1	47.9
Netherlands	1123	7.1	3.0	5.2	79.5	5.1	0.1	79.5	0.0	0.0	0.1	80.8	77.9
New Zealand	1356	2.9	4.9	4.2	73.7	13.7	0.7	73.7	0.1	0.0	0.6	73.3	74.1
Philippines	2434	12.5	19.8	16.2	28.3	22.3	0.8	28.3	0.0	0.0	0.7	30.0	26.4
Romania	1272	3.5	12.6	11.5	58.5	11.2	2.7	58.5	0.4	0.0	2.3	56.8	60.0
Russian Federation	1641	0.3	4.6	1.9	82.2	8.5	2.5	82.2	0.3	0.0	2.2	81.4	83.0
Singapore	1847	3.2	2.5	2.9	82.8	8.0	0.6	82.8	0.1	0.0	0.5	82.2	83.4
Slovak Republic	1298	1.0	3.3	2.9	82.5	8.1	2.3	82.5	0.2	0.0	2.1	79.1	86.2
Slovenia	1164	1.7	3.3	2.5	87.5	4.2	0.9	87.5	0.0	0.0	0.9	86.3	88.8
South Africa	3033	18.4	17.6	24.4	20.0	14.1	5.6	20.0	3.9	0.4	1.2	18.8	21.2
Thailand	2145	7.6	12.2	7.7	48.7	23.1	0.7	48.7	0.0	0.0	0.7	47.6	50.0
Tunisia	1884	6.6	17.3	18.6	28.9	23.1	5.5	28.9	0.7	0.2	4.7	25.8	31.9
Turkey	2925	10.7	31.0	12.8	26.5	16.5	2.5	26.5	0.0	0.0	2.5	25.6	27.1
United States	3380	2.5	6.2	5.1	74.1	11.9	0.3	74.1	0.0	0.0	0.3	69.8	78.6
International Avg.	.	4.2	8.7	7.0	65.8	12.2	2.1	65.8	0.3	0.1	1.7	64.2	67.4

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Geometry  
 Label: Angle in overlapping congruent triangles ( M012026 - E02 )  
 Item Type = MC Key = D

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	1504	10.9	14.0	17.9	46.1	10.0	1.0	46.1	0.0	0.0	1.0	45.0	47.3
Belgium (Flemish)	1962	5.3	11.3	9.0	68.7	5.2	0.6	68.7	0.1	0.0	0.5	69.5	67.9
Bulgaria	1222	5.9	5.5	10.1	70.2	5.6	2.7	70.2	0.0	0.0	2.7	70.6	69.9
Canada	3298	10.1	15.3	17.5	49.7	6.8	0.5	49.7	0.0	0.0	0.5	48.5	51.1
Chile	2197	17.7	11.5	16.6	33.7	14.8	5.8	33.7	0.0	0.7	5.1	33.4	34.0
Chinese Taipei	2176	3.5	5.9	8.9	73.7	7.8	0.2	73.7	0.0	0.0	0.2	73.3	74.0
Cyprus	1165	11.9	13.3	14.7	50.0	8.0	2.1	50.0	0.0	0.0	2.1	47.4	52.7
Czech Republic	1299	7.7	11.9	9.2	58.2	11.0	2.0	58.2	0.4	0.3	1.3	52.3	65.2
England	1102	13.1	17.0	15.6	39.8	12.4	2.1	39.8	0.2	0.1	1.8	38.5	41.1
Finland	1091	5.9	17.8	17.7	49.2	7.5	1.9	49.2	0.0	0.0	1.9	48.2	50.3
Hong Kong, SAR	1950	3.1	7.6	6.9	77.8	4.0	0.5	77.8	0.0	0.0	0.5	76.5	79.1
Hungary	1203	4.6	13.6	15.7	49.1	9.9	7.1	49.1	2.0	0.3	4.9	51.3	46.5
Indonesia	2199	28.1	10.6	14.2	31.4	14.8	0.9	31.4	0.0	0.0	0.9	30.0	32.9
Iran, Islamic Rep.	1974	12.8	14.4	17.9	34.4	17.8	2.7	34.4	0.0	0.2	2.5	30.2	37.3
Israel	1577	12.1	11.7	14.8	44.0	11.5	5.8	44.0	0.2	0.6	5.0	43.1	44.9
Italy	1254	16.4	10.8	17.6	43.3	9.7	2.2	43.3	0.0	0.0	2.2	39.2	47.6
Japan	1774	1.7	5.4	6.9	81.0	4.7	0.3	81.0	0.1	0.1	0.1	81.2	80.8
Jordan	1878	10.1	12.7	16.7	44.8	13.8	1.9	44.8	0.4	0.0	1.5	45.6	44.1
Korea, Rep. of	2294	4.5	6.2	4.8	81.0	3.5	0.0	81.0	0.0	0.0	0.0	81.1	80.8
Latvia (LSS)	1088	11.3	6.6	12.1	58.9	8.1	3.0	58.9	0.4	0.1	2.5	57.7	60.2
Lithuania	900	15.9	8.9	11.6	50.2	10.3	3.0	50.2	0.0	0.0	3.0	50.1	50.4
Macedonia, Rep. of	1506	12.8	21.8	14.0	39.8	7.8	3.7	39.8	0.2	0.4	3.1	38.2	41.3
Malaysia	2093	18.0	10.2	11.1	47.5	11.7	1.5	47.5	0.0	0.0	1.5	48.6	46.1
Moldova	1386	15.6	11.9	20.1	41.8	9.1	1.5	41.8	0.2	0.0	1.4	39.7	44.2
Morocco	2016	22.0	17.3	19.3	24.5	12.0	4.8	24.5	1.3	0.5	3.1	21.1	27.1
Netherlands	1123	11.7	15.4	17.1	42.1	12.9	0.8	42.1	0.2	0.0	0.6	43.3	40.8
New Zealand	1356	10.7	20.4	21.2	35.5	10.7	1.5	35.5	0.2	0.2	1.1	37.0	34.0
Philippines	2435	26.2	14.9	17.6	21.1	19.5	0.7	21.1	0.0	0.0	0.7	22.4	19.6
Romania	1272	10.0	9.2	17.3	52.9	9.1	1.5	52.9	0.1	0.0	1.4	54.8	51.1
Russian Federation	1641	12.2	9.6	7.0	60.6	8.1	2.5	60.6	0.0	0.2	2.3	56.1	65.5
Singapore	1847	5.4	5.1	7.9	77.5	3.6	0.4	77.5	0.0	0.0	0.4	76.5	78.4
Slovak Republic	1298	7.1	9.9	12.4	64.4	5.1	1.1	64.4	0.1	0.0	1.0	62.0	67.0
Slovenia	1164	8.9	19.3	12.8	47.9	7.9	3.2	47.9	0.4	0.0	2.8	47.7	48.0
South Africa	3033	13.7	12.0	24.7	25.3	21.2	3.0	25.3	1.5	0.5	1.0	27.2	23.3
Thailand	2145	15.6	11.8	13.7	49.1	9.1	0.7	49.1	0.0	0.0	0.6	49.9	48.2
Tunisia	1890	6.7	16.7	16.3	53.0	4.2	3.1	53.0	0.1	0.4	2.6	47.9	58.1
Turkey	2926	20.6	10.2	14.5	35.7	17.2	1.8	35.7	0.1	0.0	1.6	36.2	35.4
United States	3380	17.4	17.5	19.1	34.8	10.6	0.6	34.8	0.0	0.0	0.5	32.9	36.7
International Avg.	.	11.8	12.2	14.3	49.7	9.9	2.1	49.7	0.2	0.1	1.7	48.8	50.6

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Fractions and Number Sense  
 Label: Fraction of hour between two time points ( M012027 - E03 )  
 Item Type = MC Key = B

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	1504	11.4	72.4	4.1	9.1	2.0	1.0	72.4	0.2	0.0	0.8	70.7	74.1
Belgium (Flemish)	1962	10.6	76.0	4.2	6.9	1.6	0.8	76.0	0.0	0.0	0.7	75.1	76.9
Bulgaria	1221	6.1	66.1	14.6	7.0	2.4	3.7	66.1	0.2	0.0	3.6	66.1	65.9
Canada	3298	15.8	66.7	4.2	10.6	2.3	0.5	66.7	0.1	0.0	0.4	65.5	67.8
Chile	2197	12.4	29.9	26.8	13.8	7.6	9.5	29.9	0.0	1.1	8.4	26.4	33.5
Chinese Taipei	2176	3.1	79.5	7.2	6.9	3.0	0.3	79.5	0.0	0.0	0.2	79.0	79.9
Cyprus	1165	16.0	58.6	6.4	10.6	5.7	2.8	58.6	0.1	0.1	2.6	57.0	60.2
Czech Republic	1299	13.0	49.2	12.3	13.0	6.7	5.8	49.2	1.6	0.3	3.9	49.4	49.0
England	1102	14.0	65.8	4.8	11.1	3.5	0.8	65.8	0.1	0.1	0.6	63.5	68.1
Finland	1091	10.5	74.5	5.1	6.3	2.7	0.8	74.5	0.0	0.0	0.8	75.7	73.3
Hong Kong, SAR	1950	4.5	81.1	3.4	8.6	2.2	0.3	81.1	0.0	0.0	0.3	78.7	83.4
Hungary	1203	11.7	64.8	7.9	7.8	3.4	4.4	64.8	0.6	0.4	3.3	62.5	67.6
Indonesia	2199	17.0	39.2	19.7	13.2	8.9	2.0	39.2	0.0	0.0	2.0	38.2	40.2
Iran, Islamic Rep.	1974	12.0	36.7	24.0	14.5	8.6	4.1	36.7	0.0	0.3	3.9	31.2	40.5
Israel	1577	15.1	58.5	7.0	12.0	4.5	2.9	58.5	0.2	0.8	1.9	59.0	58.1
Italy	1254	12.6	42.9	20.8	13.1	4.6	6.0	42.9	0.0	0.1	5.9	41.1	44.9
Japan	1774	3.8	70.4	8.2	13.7	3.5	0.4	70.4	0.0	0.1	0.3	67.8	72.9
Jordan	1878	9.6	55.6	14.7	9.5	8.4	2.2	55.6	0.6	0.0	1.6	52.2	58.6
Korea, Rep. of	2294	4.7	72.6	9.6	9.7	3.1	0.2	72.6	0.0	0.0	0.2	68.8	76.3
Latvia (LSS)	1088	13.8	60.8	12.1	6.8	4.6	1.9	60.8	0.4	0.1	1.4	61.1	60.5
Lithuania	900	17.1	44.3	26.0	5.3	2.7	4.6	44.3	0.0	0.0	4.6	44.3	44.4
Macedonia, Rep. of	1506	11.8	47.6	14.0	10.2	5.9	10.4	47.6	1.7	0.4	8.3	45.1	50.1
Malaysia	2093	8.7	61.2	12.4	10.7	5.1	1.9	61.2	0.0	0.0	1.9	59.7	62.9
Moldova	1388	23.9	42.2	18.2	7.1	3.3	5.3	42.2	1.6	0.2	3.5	40.5	44.2
Morocco	2016	23.4	20.5	22.0	10.7	9.4	14.1	20.5	2.9	0.6	10.6	21.3	19.8
Netherlands	1123	17.6	69.5	3.5	6.5	2.6	0.3	69.5	0.0	0.0	0.3	64.0	75.6
New Zealand	1356	15.6	61.2	7.1	11.6	3.7	0.8	61.2	0.2	0.2	0.5	60.2	62.2
Philippines	2435	17.1	35.5	21.1	16.4	8.8	1.1	35.5	0.0	0.1	1.1	35.0	36.1
Romania	1272	12.9	46.3	21.8	10.8	5.7	2.5	46.3	0.0	0.0	2.5	45.5	47.0
Russian Federation	1641	9.4	59.3	14.8	6.3	4.4	5.8	59.3	0.5	0.2	5.1	57.5	61.3
Singapore	1847	4.0	86.2	2.4	5.5	1.8	0.2	86.2	0.0	0.0	0.2	85.7	86.7
Slovak Republic	1298	15.0	64.5	8.9	6.4	2.2	2.9	64.5	0.2	0.0	2.7	63.1	66.1
Slovenia	1164	10.6	66.1	5.4	11.1	3.5	3.3	66.1	0.4	0.0	2.8	65.9	66.3
South Africa	3032	17.6	24.1	29.8	13.6	10.5	4.4	24.1	2.0	0.6	1.8	23.7	24.5
Thailand	2145	9.6	45.3	23.0	15.4	6.0	0.8	45.3	0.0	0.1	0.6	43.5	47.4
Tunisia	1890	16.1	27.8	20.5	14.5	11.1	10.0	27.8	4.3	0.7	5.1	24.3	31.3
Turkey	2926	12.1	41.2	29.7	8.4	6.3	2.2	41.2	0.0	0.0	2.2	38.3	43.1
United States	3380	18.1	59.3	6.3	11.6	4.1	0.7	59.3	0.0	0.1	0.6	57.2	61.4
International Avg.	.	12.6	55.9	13.3	10.2	4.9	3.2	55.9	0.5	0.2	2.6	54.3	57.4

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Fractions and Number Sense  
 Label: Arrangements of 4-digit whole numbers ( M012028 - E04 )  
 Item Type = MC Key = C

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	1504	4.4	6.1	72.3	10.5	5.4	1.3	72.3	0.1	0.0	1.2	77.3	67.2
Belgium (Flemish)	1962	5.1	3.5	81.3	5.6	3.9	0.7	81.3	0.2	0.0	0.5	85.8	76.9
Bulgaria	1222	4.9	7.5	74.9	3.1	3.7	5.8	74.9	0.5	0.0	5.3	77.8	72.0
Canada	3298	5.5	5.6	77.7	6.0	3.8	1.5	77.7	0.0	0.0	1.4	80.6	74.7
Chile	2197	5.9	9.2	58.7	9.9	7.4	8.9	58.7	0.0	1.5	7.4	59.2	58.2
Chinese Taipei	2176	3.0	2.7	87.5	3.7	2.8	0.2	87.5	0.0	0.0	0.2	88.0	87.0
Cyprus	1162	10.8	12.8	53.8	10.2	8.1	4.3	53.8	0.2	0.1	4.1	56.5	50.9
Czech Republic	1300	7.0	8.5	62.3	7.5	9.0	5.6	62.3	0.4	0.3	5.0	63.6	60.7
England	1102	4.9	9.4	58.1	14.0	9.7	3.9	58.1	0.3	0.1	3.6	59.5	56.6
Finland	1091	4.1	4.2	76.5	9.5	4.0	1.7	76.5	0.0	0.0	1.7	82.4	70.3
Hong Kong, SAR	1950	1.4	1.6	89.6	4.3	3.0	0.1	89.6	0.0	0.0	0.1	91.2	88.1
Hungary	1203	10.7	8.0	63.1	5.7	4.9	7.6	63.1	0.3	0.4	6.9	64.1	62.3
Indonesia	2198	18.4	12.8	45.6	11.3	9.0	2.9	45.6	0.0	0.0	2.9	45.3	45.9
Iran, Islamic Rep.	1974	5.3	7.2	64.0	10.5	8.8	4.2	64.0	0.0	0.3	3.9	64.7	63.5
Israel	1577	4.7	7.8	64.8	9.0	7.5	6.3	64.8	0.1	0.8	5.4	67.0	62.6
Italy	1254	4.0	4.8	70.6	8.7	7.1	4.7	70.6	0.0	0.1	4.6	72.3	68.7
Japan	1774	1.8	2.8	86.9	5.2	3.0	0.3	86.9	0.0	0.1	0.2	89.7	84.2
Jordan	1880	6.5	9.5	53.5	11.4	11.2	7.8	53.5	3.2	0.0	4.6	56.4	51.0
Korea, Rep. of	2294	1.4	2.3	91.3	3.4	1.4	0.1	91.3	0.0	0.0	0.0	91.7	90.9
Latvia (LSS)	1088	4.5	4.7	76.3	6.1	4.3	4.1	76.3	0.5	0.1	3.4	81.9	70.2
Lithuania	900	8.6	9.2	66.4	4.3	5.0	6.4	66.4	0.0	0.0	6.4	70.8	61.6
Macedonia, Rep. of	1506	5.2	6.8	65.0	7.4	5.7	9.8	65.0	0.9	0.5	8.5	67.4	62.8
Malaysia	2093	3.7	5.0	82.8	3.9	3.0	1.6	82.8	0.0	0.1	1.5	85.1	80.1
Moldova	1388	12.6	13.5	54.7	7.3	7.2	4.7	54.7	0.3	0.2	4.1	53.5	56.1
Morocco	2016	11.1	12.7	36.8	10.4	12.7	16.2	36.8	2.3	0.9	13.0	34.5	38.5
Netherlands	1123	7.1	9.3	57.3	13.5	10.7	2.1	57.3	0.6	0.0	1.5	59.8	54.5
New Zealand	1356	7.5	12.6	57.1	11.0	9.3	2.5	57.1	0.4	0.2	1.9	60.9	53.3
Philippines	2435	18.6	16.9	36.1	13.3	13.4	1.8	36.1	0.1	0.1	1.6	38.3	33.4
Romania	1271	8.8	5.9	70.2	7.0	5.3	2.9	70.2	0.3	0.1	2.5	73.2	67.6
Russian Federation	1641	6.3	3.8	76.6	5.0	3.0	5.4	76.6	0.1	0.3	5.0	77.5	75.5
Singapore	1847	2.1	2.4	89.0	2.8	2.8	0.9	89.0	0.0	0.0	0.9	89.2	88.7
Slovak Republic	1298	4.6	3.6	74.2	3.9	6.2	7.5	74.2	0.4	0.0	7.2	78.6	69.3
Slovenia	1164	3.2	3.4	82.5	5.6	3.2	2.1	82.5	0.0	0.0	2.1	86.1	78.3
South Africa	3033	19.0	18.3	25.2	12.9	18.3	6.2	25.2	1.7	0.8	3.8	26.3	24.0
Thailand	2145	12.6	12.1	56.9	10.4	7.0	1.0	56.9	0.0	0.2	0.8	59.0	54.5
Tunisia	1875	2.5	5.1	68.2	8.6	5.7	9.8	68.2	1.4	0.9	7.5	68.2	68.3
Turkey	2926	8.8	9.4	63.9	7.9	8.0	2.0	63.9	0.0	0.0	2.0	65.0	63.1
United States	3380	7.3	8.0	70.9	8.0	4.7	1.2	70.9	0.1	0.1	1.1	73.1	68.6
International Avg.	.	7.0	7.6	66.9	7.9	6.6	4.1	66.9	0.4	0.2	3.5	69.0	64.7

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Algebra  
 Label: Sets of ordered pairs of numbers ( M012029 - E05 )  
 Item Type = MC Key = E

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	1504	4.3	2.4	6.0	11.6	73.9	1.8	73.9	0.3	0.0	1.5	75.9	71.8
Belgium (Flemish)	1962	3.9	2.8	6.2	16.5	67.0	3.6	67.0	0.9	0.0	2.7	67.8	66.2
Bulgaria	1222	8.2	1.9	8.5	15.5	56.4	9.5	56.4	3.6	0.0	5.9	59.8	52.9
Canada	3298	4.0	3.0	6.7	15.6	69.4	1.4	69.4	0.4	0.0	1.0	69.8	69.1
Chile	2197	7.9	7.2	18.5	28.4	22.4	15.5	22.4	0.0	2.0	13.5	20.9	23.9
Chinese Taipei	2176	2.1	2.1	5.6	14.2	75.2	0.8	75.2	0.4	0.0	0.4	76.5	73.9
Cyprus	1158	8.4	10.0	14.8	27.4	32.9	6.5	32.9	0.7	0.1	5.7	33.7	32.0
Czech Republic	1300	2.5	1.5	6.9	16.6	66.9	5.6	66.9	1.4	0.7	3.5	68.6	64.8
England	1102	3.6	2.6	7.6	14.6	68.2	3.4	68.2	1.6	0.1	1.7	67.7	68.5
Finland	1091	3.6	3.5	8.3	15.1	65.4	4.1	65.4	0.0	0.0	4.1	69.0	61.6
Hong Kong, SAR	1950	3.1	2.2	7.3	15.9	71.0	0.5	71.0	0.1	0.0	0.4	72.2	69.9
Hungary	1203	3.4	1.4	4.0	11.0	73.2	7.1	73.2	2.8	0.4	3.9	74.7	71.7
Indonesia	2198	7.7	3.9	12.0	43.3	30.1	3.0	30.1	0.0	0.1	2.9	28.0	32.4
Iran, Islamic Rep.	1974	10.3	7.6	19.7	20.2	36.2	5.9	36.2	0.0	0.3	5.6	35.7	36.6
Israel	1577	9.1	6.0	11.9	13.5	50.5	9.0	50.5	1.1	0.8	7.1	50.6	50.3
Italy	1254	7.5	5.1	11.4	18.8	50.8	6.5	50.8	0.0	0.1	6.4	51.2	50.3
Japan	1774	2.2	1.5	4.4	9.5	81.5	0.9	81.5	0.3	0.1	0.5	81.1	81.8
Jordan	1880	6.2	8.1	12.0	17.6	52.0	4.0	52.0	0.9	0.1	3.0	55.6	48.9
Korea, Rep. of	2294	1.6	1.4	2.8	8.5	85.4	0.3	85.4	0.2	0.0	0.0	86.4	84.5
Latvia (LSS)	1088	5.5	2.4	6.4	13.2	62.3	10.2	62.3	4.1	0.1	6.0	68.0	56.0
Lithuania	900	6.6	3.7	7.4	17.8	53.9	10.5	53.9	0.0	0.0	10.5	58.1	49.3
Macedonia, Rep. of	1506	7.1	2.8	9.8	21.6	48.4	10.4	48.4	1.7	0.6	8.0	51.0	45.9
Malaysia	2093	3.1	1.9	5.2	28.8	59.0	2.0	59.0	0.0	0.1	1.9	60.3	57.5
Moldova	1388	11.6	6.2	10.6	26.0	38.9	6.7	38.9	2.5	0.4	3.7	38.9	38.9
Morocco	2013	10.0	10.1	20.1	29.7	13.9	16.2	13.9	1.5	1.6	13.1	14.5	13.5
Netherlands	1123	3.6	1.0	6.8	13.2	73.8	1.6	73.8	0.1	0.0	1.5	75.6	71.8
New Zealand	1356	6.6	3.6	7.6	16.0	64.7	1.5	64.7	0.3	0.2	0.9	68.4	61.2
Philippines	2435	13.5	7.0	14.4	37.9	26.1	1.1	26.1	0.2	0.2	0.7	27.3	24.7
Romania	1272	10.3	4.3	11.6	19.7	42.7	11.4	42.7	6.1	0.3	5.0	47.2	38.6
Russian Federation	1641	3.3	3.3	4.1	10.0	69.7	9.6	69.7	3.4	0.7	5.5	72.7	66.5
Singapore	1847	1.5	2.0	3.8	16.3	75.0	1.4	75.0	0.3	0.0	1.1	73.4	76.6
Slovak Republic	1298	6.0	3.5	5.8	15.3	62.7	6.7	62.7	1.0	0.1	5.5	65.9	59.3
Slovenia	1164	5.0	3.4	7.4	16.2	63.4	4.6	63.4	0.7	0.0	3.9	68.2	57.8
South Africa	3033	17.3	10.0	18.0	26.5	23.2	5.0	23.2	1.5	1.0	2.5	23.5	23.0
Thailand	2145	7.6	2.9	13.5	38.5	36.3	1.3	36.3	0.0	0.2	1.1	37.7	34.6
Tunisia	1875	7.3	19.3	13.7	27.2	16.9	15.7	16.9	1.8	1.1	12.7	15.2	18.6
Turkey	2926	7.8	13.4	11.0	30.1	32.4	5.4	32.4	0.0	0.0	5.3	35.1	30.6
United States	3380	5.2	3.7	7.5	17.1	65.2	1.2	65.2	0.2	0.1	0.9	65.6	64.9
International Avg.	.	6.3	4.7	9.5	19.9	54.1	5.6	54.1	1.1	0.3	4.2	55.6	52.6

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Measurement  
 Label: Length of rectangle from width/perimeter ( M012030 - E06 )  
 Item Type = MC Key = B

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	1504	19.2	55.4	11.9	13.1	0.4	55.4	0.0	0.0	0.4	55.9	54.9
Belgium (Flemish)	1962	23.3	61.0	6.9	8.7	0.1	61.0	0.0	0.0	0.1	60.1	61.9
Bulgaria	1222	24.7	50.2	9.8	13.3	2.0	50.2	0.1	0.0	1.9	47.7	52.7
Canada	3298	25.6	49.3	11.3	13.3	0.5	49.3	0.0	0.0	0.4	48.7	50.0
Chile	2197	15.6	25.9	22.2	30.6	5.8	25.9	0.0	2.7	3.1	24.6	27.2
Chinese Taipei	2176	24.7	62.9	4.0	8.3	0.0	62.9	0.0	0.0	0.0	59.3	66.6
Cyprus	1168	42.0	33.7	10.7	12.7	0.9	33.7	0.1	0.1	0.6	32.2	35.3
Czech Republic	1299	29.4	46.9	12.4	8.8	2.5	46.9	0.2	0.7	1.6	44.0	50.3
England	1102	18.4	45.4	16.2	19.6	0.5	45.4	0.0	0.1	0.4	45.0	45.6
Finland	1091	19.8	44.5	15.4	19.7	0.5	44.5	0.0	0.1	0.5	48.3	40.5
Hong Kong, SAR	1950	23.0	65.6	4.8	6.5	0.2	65.6	0.0	0.1	0.1	65.8	65.4
Hungary	1203	39.3	35.3	8.0	15.8	1.5	35.3	0.1	0.6	0.8	32.3	38.7
Indonesia	2199	50.3	15.7	9.5	23.5	1.0	15.7	0.0	0.2	0.8	13.7	17.8
Iran, Islamic Rep.	1974	44.8	24.4	8.3	20.1	2.5	24.4	0.0	0.3	2.2	18.9	28.1
Israel	1577	37.2	29.2	13.4	17.9	2.4	29.2	0.1	0.8	1.4	27.2	31.2
Italy	1254	24.4	40.3	14.8	18.8	1.6	40.3	0.0	0.2	1.4	39.9	40.8
Japan	1774	15.7	68.3	6.4	9.5	0.1	68.3	0.0	0.1	0.0	70.6	66.1
Jordan	1884	36.1	25.9	12.6	23.3	2.2	25.9	0.4	0.1	1.7	24.0	27.4
Korea, Rep. of	2294	23.8	67.7	3.0	5.4	0.0	67.7	0.0	0.0	0.0	66.1	69.2
Latvia (LSS)	1088	20.2	52.0	14.2	12.5	1.1	52.0	0.2	0.3	0.6	54.1	49.7
Lithuania	900	35.6	32.3	11.2	19.2	1.6	32.3	0.0	0.0	1.6	32.3	32.3
Macedonia, Rep. of	1506	26.2	33.8	14.2	21.3	4.5	33.8	0.1	0.6	3.8	36.0	31.8
Malaysia	2093	30.2	47.1	7.4	14.8	0.5	47.1	0.0	0.1	0.4	45.0	49.5
Moldova	1387	23.1	37.2	11.8	26.2	1.7	37.2	0.0	0.4	1.3	35.7	38.9
Morocco	2009	27.0	15.2	17.9	32.7	7.2	15.2	0.7	2.1	4.4	13.7	16.3
Netherlands	1123	26.8	48.5	10.6	13.4	0.7	48.5	0.0	0.0	0.7	45.3	52.0
New Zealand	1356	18.8	45.2	20.9	14.6	0.6	45.2	0.1	0.2	0.2	43.9	46.4
Philippines	2435	40.3	14.4	13.0	31.4	0.9	14.4	0.1	0.2	0.6	14.5	14.3
Romania	1273	18.6	47.4	11.8	21.0	1.1	47.4	0.0	0.3	0.8	50.5	44.7
Russian Federation	1641	27.4	48.3	9.6	12.7	1.9	48.3	0.1	0.7	1.1	46.1	50.8
Singapore	1847	12.0	80.3	3.3	4.3	0.1	80.3	0.0	0.0	0.1	80.8	79.9
Slovak Republic	1298	29.4	47.3	9.5	12.4	1.3	47.3	0.0	0.2	1.1	47.1	47.5
Slovenia	1164	30.5	49.6	9.9	9.2	0.7	49.6	0.0	0.0	0.7	47.9	51.6
South Africa	3033	23.5	14.9	23.1	35.5	3.0	14.9	0.5	1.1	1.4	14.5	15.3
Thailand	2145	41.4	24.6	8.6	24.6	0.8	24.6	0.0	0.3	0.5	23.8	25.6
Tunisia	1891	35.7	41.4	10.2	10.0	2.8	41.4	0.2	1.4	1.2	37.6	45.3
Turkey	2926	27.3	31.9	13.8	25.8	1.1	31.9	0.0	0.0	1.1	31.7	32.1
United States	3380	31.1	36.5	13.2	18.8	0.4	36.5	0.0	0.1	0.3	33.0	40.0
International Avg.	.	28.0	42.0	11.5	17.1	1.5	42.0	0.1	0.4	1.0	41.0	43.0

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Fractions and Number Sense  
 Label: Average speed from distance and time ( M012031 - F07 )  
 Item Type = MC Key = B

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	1509	34.7	29.3	11.0	17.1	6.3	1.6	29.3	0.0	0.0	1.6	27.8	30.8
Belgium (Flemish)	1963	20.8	44.4	14.8	13.5	4.5	2.1	44.4	0.1	0.0	1.9	44.0	44.7
Bulgaria	1232	23.3	41.3	7.0	18.1	5.3	4.9	41.3	0.0	0.2	4.7	40.6	42.1
Canada	3286	30.3	32.4	8.6	21.9	5.6	1.4	32.4	0.1	0.1	1.2	30.7	33.9
Chile	2183	30.6	16.8	15.7	18.5	7.5	11.0	16.8	0.0	3.1	7.9	15.1	18.3
Chinese Taipei	2176	14.5	60.6	3.5	17.3	4.0	0.1	60.6	0.0	0.0	0.1	61.1	60.2
Cyprus	1162	29.8	22.7	15.2	21.6	8.1	2.6	22.7	0.1	0.1	2.4	20.8	24.4
Czech Republic	1316	28.0	32.3	12.0	17.3	5.5	4.8	32.3	0.1	0.5	4.2	30.4	34.4
England	1121	33.8	22.4	13.0	21.2	8.2	1.3	22.4	0.0	0.1	1.2	18.5	26.2
Finland	1093	39.7	30.0	11.7	13.8	2.6	2.1	30.0	0.0	0.0	2.1	26.3	33.8
Hong Kong, SAR	1945	17.2	60.4	4.7	13.3	3.9	0.5	60.4	0.0	0.1	0.4	59.5	61.3
Hungary	1192	14.9	39.6	12.0	23.5	4.8	5.2	39.6	0.1	0.4	4.7	39.6	39.3
Indonesia	2185	23.0	26.8	10.4	27.9	8.4	3.6	26.8	0.0	0.2	3.4	26.2	27.3
Iran, Islamic Rep.	1987	22.5	18.8	15.5	26.8	10.2	6.2	18.8	0.0	0.3	5.9	17.3	19.8
Israel	1554	29.7	26.6	11.0	17.5	7.2	8.0	26.6	0.0	1.4	6.6	23.5	29.9
Italy	1238	25.8	24.5	12.2	25.9	5.4	6.2	24.5	0.0	0.5	5.7	23.5	25.6
Japan	1787	20.5	49.9	6.0	20.0	3.0	0.6	49.9	0.0	0.1	0.6	42.4	57.0
Jordan	1892	24.0	19.1	13.0	30.5	9.4	4.1	19.1	0.5	0.3	3.3	18.3	19.8
Korea, Rep. of	2290	20.4	42.8	6.8	25.6	3.7	0.7	42.8	0.1	0.0	0.6	38.9	46.6
Latvia (LSS)	1082	29.1	29.0	11.9	19.8	6.5	3.7	29.0	0.4	0.2	3.1	28.4	29.7
Lithuania	879	30.8	33.7	9.3	13.8	4.4	8.0	33.7	0.2	0.6	7.2	33.0	34.5
Macedonia, Rep. of	1516	22.2	25.6	13.6	17.7	9.0	11.8	25.6	0.3	0.9	10.6	26.2	25.1
Malaysia	2094	16.2	46.8	7.1	22.3	5.5	2.0	46.8	0.0	0.3	1.7	46.4	47.4
Moldova	1385	28.1	28.6	12.1	18.9	8.3	4.0	28.6	0.6	0.5	2.9	27.2	30.3
Morocco	2016	19.4	16.1	18.9	19.8	14.7	11.1	16.1	0.6	2.3	8.2	14.8	17.0
Netherlands	1114	26.3	40.4	11.6	16.0	4.4	1.2	40.4	0.2	0.0	1.0	41.6	39.0
New Zealand	1371	36.0	24.7	16.5	15.4	6.3	1.1	24.7	0.1	0.0	1.0	25.0	24.5
Philippines	2467	30.3	14.9	15.6	26.2	11.4	1.6	14.9	0.2	0.1	1.3	14.3	15.7
Romania	1283	22.1	32.6	9.3	21.1	10.6	4.3	32.6	0.3	0.2	3.8	33.1	32.2
Russian Federation	1615	22.3	45.0	6.5	13.4	5.7	7.2	45.0	0.4	0.4	6.3	43.3	46.8
Singapore	1860	12.1	66.9	3.8	12.9	4.1	0.2	66.9	0.0	0.0	0.2	66.8	67.1
Slovak Republic	1306	20.3	42.3	9.1	17.2	6.1	5.0	42.3	0.0	0.1	4.9	41.8	42.8
Slovenia	1165	22.1	40.9	11.2	14.1	6.0	5.8	40.9	0.1	0.1	5.6	39.5	42.3
South Africa	3090	20.3	15.7	20.2	15.3	24.7	3.8	15.7	0.3	1.5	1.9	15.9	15.5
Thailand	2144	29.7	27.5	8.6	26.2	6.6	1.4	27.5	0.0	0.3	1.1	26.8	28.5
Tunisia	1882	21.7	26.4	10.4	22.5	11.4	7.6	26.4	0.4	1.1	6.1	22.2	30.8
Turkey	2937	23.7	30.1	11.5	22.7	8.1	4.0	30.1	0.0	0.2	3.7	28.4	31.4
United States	3405	29.6	27.8	11.8	24.0	5.5	1.2	27.8	0.1	0.1	0.9	26.5	29.2
International Avg.	.	24.9	33.1	11.1	19.7	7.2	4.0	33.1	0.1	0.4	3.4	31.7	34.3

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent



Mathematics: Data Representation, Analysis and Probability  
 Label: Likely result of fifth coin toss ( M012032 - F08 )  
 Item Type = MC Key = C

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	1509	9.7	6.0	76.4	7.7	0.2	76.4	0.1	0.1	0.0	76.4	76.4
Belgium (Flemish)	1963	6.1	6.4	74.1	12.6	0.8	74.1	0.1	0.0	0.6	73.5	74.8
Bulgaria	1232	9.7	6.8	70.4	10.7	2.3	70.4	0.2	0.3	1.8	72.5	68.0
Canada	3286	10.7	6.5	75.1	7.3	0.4	75.1	0.0	0.2	0.2	76.8	73.5
Chile	2183	7.8	10.6	55.7	20.8	5.1	55.7	0.0	3.4	1.6	58.6	53.0
Chinese Taipei	2176	9.1	9.2	76.6	5.2	0.0	76.6	0.0	0.0	0.0	75.2	77.9
Cyprus	1164	11.6	11.7	59.9	16.1	0.7	59.9	0.1	0.1	0.5	61.5	58.4
Czech Republic	1316	10.0	4.4	77.2	7.2	1.2	77.2	0.0	0.7	0.5	77.2	77.2
England	1121	5.7	8.1	81.0	4.5	0.7	81.0	0.1	0.2	0.4	81.3	80.7
Finland	1093	13.9	6.2	71.2	7.9	0.7	71.2	0.0	0.0	0.7	71.6	70.9
Hong Kong, SAR	1945	13.7	11.4	55.4	18.9	0.6	55.4	0.0	0.1	0.5	56.2	54.7
Hungary	1192	6.0	3.0	86.2	3.1	1.6	86.2	0.1	0.7	0.9	87.1	85.2
Indonesia	2182	13.0	41.5	28.1	15.9	1.5	28.1	0.1	0.3	1.0	25.4	31.0
Iran, Islamic Rep.	1987	11.0	18.0	33.2	35.6	2.2	33.2	0.0	0.5	1.7	33.7	32.9
Israel	1554	11.7	13.2	55.3	16.0	3.9	55.3	0.0	1.5	2.3	52.4	58.3
Italy	1238	13.5	6.9	69.8	8.5	1.3	69.8	0.0	0.5	0.8	70.1	69.5
Japan	1787	13.3	11.5	58.0	17.0	0.1	58.0	0.0	0.1	0.0	49.7	65.8
Jordan	1892	5.0	21.7	57.2	14.4	1.7	57.2	0.3	0.3	1.1	56.8	57.5
Korea, Rep. of	2290	9.0	8.1	65.1	17.7	0.0	65.1	0.0	0.0	0.0	61.2	68.9
Latvia (LSS)	1082	7.1	5.9	75.5	10.1	1.4	75.5	0.2	0.4	0.8	77.3	73.5
Lithuania	879	6.5	11.7	70.1	9.4	2.2	70.1	0.0	0.8	1.4	71.6	68.6
Macedonia, Rep. of	1516	6.3	11.6	50.2	25.1	6.8	50.2	0.0	0.9	5.9	54.1	46.6
Malaysia	2094	13.7	23.3	23.8	37.1	2.2	23.8	0.0	0.3	1.9	22.8	25.0
Moldova	1385	13.3	16.4	35.9	30.9	3.4	35.9	0.5	0.7	2.3	36.1	35.5
Morocco	2016	14.6	18.0	24.0	33.8	9.5	24.0	1.5	2.6	5.5	23.2	24.5
Netherlands	1114	7.1	4.3	78.8	9.4	0.3	78.8	0.1	0.0	0.2	81.3	76.2
New Zealand	1371	11.6	8.3	70.7	8.7	0.7	70.7	0.1	0.0	0.6	74.7	67.2
Philippines	2467	16.9	28.3	29.1	24.5	1.3	29.1	0.0	0.1	1.1	29.0	29.2
Romania	1283	8.9	13.1	52.8	22.3	2.9	52.8	0.5	0.4	2.0	56.5	49.3
Russian Federation	1615	12.2	7.7	62.5	13.4	4.1	62.5	0.1	0.7	3.3	63.1	61.9
Singapore	1860	12.2	12.1	48.5	27.0	0.3	48.5	0.0	0.0	0.3	48.8	48.2
Slovak Republic	1306	11.4	9.0	69.7	8.2	1.6	69.7	0.1	0.2	1.3	68.6	70.8
Slovenia	1165	7.6	11.2	70.1	9.2	1.9	70.1	0.1	0.1	1.6	70.6	69.6
South Africa	3090	14.3	22.3	33.6	25.3	4.4	33.6	0.2	1.7	2.5	33.0	34.2
Thailand	2144	13.5	20.7	19.9	45.3	0.7	19.9	0.0	0.3	0.4	18.2	21.9
Tunisia	1882	4.8	19.4	26.7	42.5	6.6	26.7	1.6	1.8	3.2	25.6	27.9
Turkey	2937	8.1	16.2	52.1	21.8	1.8	52.1	0.0	0.3	1.5	49.4	54.1
United States	3405	16.9	10.2	62.0	10.4	0.6	62.0	0.0	0.1	0.4	61.7	62.3
International Avg.	.	10.5	12.7	57.4	17.4	2.0	57.4	0.2	0.5	1.3	57.4	57.4

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Fractions and Number Sense  
 Label: Number between two decimal fractions ( M012033 - F09 )  
 Item Type = MC Key = C

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	1509	2.8	6.0	76.3	14.2	0.7	76.3	0.2	0.1	0.4	75.2	77.4
Belgium (Flemish)	1963	1.4	3.4	83.8	9.7	1.8	83.8	1.6	0.0	0.1	82.9	84.7
Bulgaria	1232	5.9	7.2	66.9	15.7	4.4	66.9	0.4	0.3	3.7	68.4	65.2
Canada	3286	2.0	5.7	77.8	13.6	0.9	77.8	0.2	0.3	0.5	76.6	78.9
Chile	2183	7.1	10.6	42.5	31.2	8.6	42.5	0.1	3.7	4.9	43.5	41.6
Chinese Taipei	2176	2.5	5.0	81.8	10.5	0.3	81.8	0.2	0.0	0.1	83.3	80.2
Cyprus	1161	7.9	15.4	53.2	21.6	1.9	53.2	0.5	0.1	1.2	53.2	53.2
Czech Republic	1316	2.5	6.8	70.3	17.8	2.7	70.3	0.3	0.7	1.7	70.6	69.9
England	1121	1.3	4.1	71.2	21.8	1.6	71.2	0.6	0.2	0.7	68.7	73.6
Finland	1093	1.6	6.2	80.4	10.8	1.1	80.4	0.0	0.0	1.1	78.4	82.5
Hong Kong, SAR	1945	2.1	5.5	81.2	10.9	0.3	81.2	0.0	0.1	0.2	81.3	81.1
Hungary	1192	3.0	5.4	69.4	19.7	2.6	69.4	0.4	0.7	1.5	68.1	70.4
Indonesia	2182	16.1	19.7	40.3	21.4	2.5	40.3	0.0	0.5	2.1	39.1	41.5
Iran, Islamic Rep.	1987	13.4	16.6	30.9	35.7	3.3	30.9	0.0	0.5	2.9	27.0	33.6
Israel	1554	6.2	10.4	56.7	23.2	3.5	56.7	0.6	1.5	1.4	50.3	63.3
Italy	1238	7.3	11.4	59.1	18.4	3.8	59.1	0.1	0.8	3.0	56.1	62.4
Japan	1787	1.4	4.7	83.5	10.2	0.2	83.5	0.1	0.1	0.0	82.1	84.7
Jordan	1892	6.2	10.3	37.3	44.3	1.9	37.3	0.2	0.3	1.4	35.1	39.3
Korea, Rep. of	2290	2.0	8.4	84.2	5.3	0.1	84.2	0.0	0.0	0.0	82.5	86.0
Latvia (LSS)	1082	6.3	12.5	65.8	12.7	2.6	65.8	0.7	0.4	1.5	63.6	68.4
Lithuania	879	4.0	8.8	70.6	13.6	2.9	70.6	0.0	0.8	2.1	69.3	72.0
Macedonia, Rep. of	1516	6.7	8.9	56.4	21.6	6.5	56.4	0.4	1.1	5.1	54.4	58.2
Malaysia	2094	5.6	10.1	69.8	13.4	1.0	69.8	0.0	0.3	0.7	69.8	69.9
Moldova	1385	6.7	7.0	55.5	27.1	3.6	55.5	0.9	0.7	2.0	54.2	57.1
Morocco	2016	9.3	14.8	39.1	26.4	10.4	39.1	2.0	2.9	5.5	37.7	40.1
Netherlands	1114	1.5	2.7	85.5	8.1	2.2	85.5	1.5	0.0	0.7	84.9	86.0
New Zealand	1371	3.1	6.4	67.6	21.6	1.3	67.6	0.7	0.0	0.5	68.8	66.5
Philippines	2467	17.3	19.7	34.0	27.5	1.5	34.0	0.1	0.1	1.2	33.6	34.5
Romania	1283	10.4	9.5	51.7	20.1	8.3	51.7	4.1	0.4	3.8	53.8	49.7
Russian Federation	1615	4.9	5.3	69.4	16.8	3.6	69.4	0.3	0.8	2.5	70.4	68.3
Singapore	1860	0.8	3.9	87.2	7.7	0.4	87.2	0.1	0.1	0.2	86.7	87.8
Slovak Republic	1306	3.6	4.3	73.7	16.4	2.0	73.7	0.2	0.3	1.4	71.1	76.4
Slovenia	1165	2.5	6.4	75.1	13.5	2.5	75.1	0.6	0.1	1.9	72.9	77.5
South Africa	3090	12.3	11.3	32.8	38.4	5.2	32.8	1.4	2.0	1.8	32.5	33.1
Thailand	2144	10.1	14.9	53.5	20.6	0.8	53.5	0.0	0.3	0.5	53.1	54.1
Tunisia	1881	5.9	14.4	47.7	20.3	11.7	47.7	5.4	2.2	4.1	42.2	53.5
Turkey	2937	14.0	12.3	35.2	34.7	3.7	35.2	0.0	0.3	3.4	31.7	37.7
United States	3405	4.0	5.8	69.7	19.6	0.9	69.7	0.0	0.1	0.8	68.4	70.9
International Avg.	.	5.8	9.0	62.8	19.4	3.0	62.8	0.6	0.6	1.8	61.6	64.0

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Measurement  
 Label: Measurement accuracy of ruler ( M012034 - F10 )  
 Item Type = MC Key = D

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	1509	4.1	3.0	28.5	63.2	1.2	63.2	0.8	0.1	0.3	60.0	66.4
Belgium (Flemish)	1963	2.3	5.8	10.7	80.4	0.7	80.4	0.6	0.0	0.2	78.7	82.2
Bulgaria	1232	9.5	5.1	16.0	65.2	4.2	65.2	2.8	0.3	1.1	67.0	63.0
Canada	3286	5.5	2.4	39.4	51.6	1.0	51.6	0.5	0.3	0.3	47.8	55.2
Chile	2183	9.8	8.3	41.8	33.0	7.0	33.0	0.0	4.2	2.8	31.1	34.9
Chinese Taipei	2176	30.6	7.4	15.4	46.5	0.0	46.5	0.0	0.0	0.0	43.8	49.3
Cyprus	1164	9.9	3.6	60.4	24.4	1.6	24.4	0.9	0.1	0.6	22.0	26.9
Czech Republic	1315	3.8	4.9	13.5	73.9	3.9	73.9	2.9	0.9	0.1	68.2	80.0
England	1121	7.1	2.2	38.2	50.5	1.9	50.5	1.0	0.2	0.7	45.4	55.5
Finland	1092	2.0	4.0	10.1	80.5	3.3	80.5	0.0	0.0	3.3	77.7	83.4
Hong Kong, SAR	1945	7.5	7.1	28.2	56.8	0.3	56.8	0.0	0.1	0.1	55.8	57.9
Hungary	1192	4.3	3.6	16.7	71.5	3.9	71.5	2.6	0.7	0.6	67.5	75.5
Indonesia	2182	30.0	8.8	24.7	35.4	1.0	35.4	0.0	0.5	0.6	38.0	32.8
Iran, Islamic Rep.	1987	9.1	3.8	62.4	22.9	1.9	22.9	0.0	0.6	1.3	17.9	26.3
Israel	1554	9.1	7.7	30.6	47.9	4.8	47.9	0.5	1.5	2.7	40.2	55.7
Italy	1238	12.2	5.8	19.9	60.6	1.6	60.6	0.0	0.8	0.8	55.7	65.9
Japan	1787	2.8	2.7	54.0	35.0	5.5	35.0	5.4	0.1	0.1	32.0	37.7
Jordan	1872	9.8	6.4	59.7	22.5	1.5	22.5	0.2	0.3	1.0	19.0	25.6
Korea, Rep. of	2290	7.2	15.5	16.2	61.1	0.0	61.1	0.0	0.0	0.0	59.1	63.1
Latvia (LSS)	1082	7.8	4.3	11.5	74.9	1.5	74.9	0.6	0.5	0.4	71.7	78.1
Lithuania	879	7.2	3.1	23.8	59.4	6.4	59.4	0.0	0.9	5.5	50.9	68.7
Macedonia, Rep. of	1516	23.3	8.2	21.3	42.8	4.4	42.8	0.6	1.1	2.7	41.4	44.3
Malaysia	2094	9.4	5.4	54.8	29.3	1.2	29.3	0.0	0.4	0.8	28.3	30.5
Moldova	1385	8.4	4.8	42.5	40.7	3.6	40.7	2.0	0.7	0.9	38.9	42.8
Morocco	2017	12.8	11.6	45.1	20.2	10.3	20.2	1.7	3.0	5.5	20.4	20.0
Netherlands	1114	3.2	3.0	22.0	71.5	0.2	71.5	0.0	0.0	0.2	69.1	74.2
New Zealand	1371	5.8	2.4	34.4	55.8	1.6	55.8	1.0	0.0	0.6	56.7	55.0
Philippines	2467	20.1	6.6	54.1	18.4	0.8	18.4	0.0	0.2	0.6	19.5	17.1
Romania	1282	11.2	5.0	34.9	44.5	4.4	44.5	2.0	0.4	2.0	43.3	45.7
Russian Federation	1615	5.3	3.9	14.5	74.2	2.2	74.2	0.6	0.8	0.8	72.2	76.2
Singapore	1860	6.4	2.2	38.7	52.3	0.3	52.3	0.1	0.1	0.2	49.0	55.6
Slovak Republic	1306	15.0	4.3	18.3	60.3	2.2	60.3	1.2	0.4	0.6	53.3	67.3
Slovenia	1165	2.5	5.4	14.8	75.3	2.1	75.3	1.9	0.1	0.1	70.5	80.5
South Africa	3090	15.0	7.5	47.0	27.0	3.5	27.0	0.5	2.1	0.9	27.6	26.3
Thailand	2144	16.4	6.0	39.7	37.1	0.8	37.1	0.0	0.3	0.5	35.5	38.9
Tunisia	1893	4.3	3.2	44.6	28.8	19.1	28.8	14.5	2.4	2.2	23.7	34.1
Turkey	2937	12.4	5.3	63.5	17.7	1.1	17.7	0.0	0.3	0.8	15.4	19.3
United States	3405	8.2	2.7	46.4	42.3	0.4	42.3	0.0	0.1	0.3	40.2	44.3
International Avg.	.	9.8	5.3	33.1	48.8	2.9	48.8	1.2	0.6	1.1	46.2	51.5

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Algebra  
 Label: Find 1/3 of number from relationship ( M012035 - F11 )  
 Item Type = MC Key = A

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	1509	53.9	8.1	15.2	21.9	1.0	53.9	0.0	0.1	0.9	51.6	56.2
Belgium (Flemish)	1963	72.2	3.1	9.8	14.4	0.5	72.2	0.1	0.0	0.4	71.3	73.0
Bulgaria	1232	65.5	5.3	18.5	8.2	2.5	65.5	0.1	0.3	2.1	67.4	63.4
Canada	3286	53.1	7.6	18.7	19.9	0.7	53.1	0.0	0.3	0.4	50.9	55.3
Chile	2183	22.5	14.0	32.4	21.4	9.7	22.5	0.0	4.9	4.8	21.3	23.7
Chinese Taipei	2176	83.1	2.3	9.4	5.2	0.1	83.1	0.0	0.0	0.1	84.7	81.5
Cyprus	1161	48.8	5.6	19.7	24.3	1.6	48.8	0.0	0.1	1.4	51.5	46.2
Czech Republic	1315	40.3	6.9	19.0	31.2	2.6	40.3	0.1	0.9	1.6	36.8	44.1
England	1121	40.0	8.4	26.4	23.9	1.3	40.0	0.0	0.4	0.9	35.4	44.6
Finland	1092	67.6	10.6	13.5	7.2	1.2	67.6	0.0	0.0	1.2	67.3	67.8
Hong Kong, SAR	1944	89.1	2.7	5.3	2.7	0.2	89.1	0.0	0.1	0.1	89.8	88.4
Hungary	1192	63.1	5.1	14.4	14.5	3.0	63.1	0.2	0.7	2.1	64.1	61.9
Indonesia	2187	19.9	13.9	27.3	37.0	2.0	19.9	0.0	0.5	1.5	21.1	18.7
Iran, Islamic Rep.	1987	35.9	10.4	28.1	23.3	2.4	35.9	0.0	0.6	1.8	33.1	37.8
Israel	1554	44.3	11.5	20.0	19.5	4.7	44.3	0.1	1.9	2.7	41.6	47.0
Italy	1238	28.7	8.8	18.1	40.5	3.9	28.7	0.0	0.8	3.1	29.6	27.6
Japan	1787	73.0	2.9	13.3	10.6	0.3	73.0	0.0	0.1	0.2	72.2	73.7
Jordan	1872	36.0	14.0	23.4	23.9	2.7	36.0	0.3	0.3	2.1	33.8	37.9
Korea, Rep. of	2290	85.1	1.7	6.9	6.3	0.1	85.1	0.0	0.0	0.1	84.2	86.1
Latvia (LSS)	1082	45.8	6.1	19.9	26.1	2.0	45.8	0.2	0.5	1.4	47.2	44.2
Lithuania	879	19.4	7.0	23.6	43.2	6.7	19.4	0.0	1.0	5.7	20.7	18.1
Macedonia, Rep. of	1516	34.2	11.3	18.6	27.6	8.3	34.2	0.1	1.3	6.9	33.5	34.9
Malaysia	2094	53.8	5.8	12.5	26.7	1.3	53.8	0.0	0.4	0.8	56.0	51.1
Moldova	1384	40.8	9.7	27.7	19.1	2.7	40.8	0.2	0.9	1.6	40.3	41.5
Morocco	2017	15.2	19.5	37.5	16.3	11.5	15.2	1.1	4.0	6.4	15.9	14.8
Netherlands	1114	41.0	4.3	15.2	38.5	1.0	41.0	0.0	0.1	0.9	40.5	41.6
New Zealand	1371	43.3	11.7	22.9	21.4	0.8	43.3	0.1	0.1	0.6	42.9	43.6
Philippines	2467	18.9	15.6	38.7	25.4	1.4	18.9	0.0	0.2	1.2	19.4	18.4
Romania	1283	41.3	10.6	35.0	8.7	4.4	41.3	0.5	0.6	3.2	41.8	40.8
Russian Federation	1615	63.0	6.3	19.2	6.5	5.0	63.0	0.0	1.0	4.0	61.1	65.1
Singapore	1860	81.9	2.0	5.7	10.1	0.3	81.9	0.0	0.1	0.2	82.2	81.6
Slovak Republic	1306	37.9	7.2	28.1	24.0	2.9	37.9	0.0	0.6	2.3	39.2	36.5
Slovenia	1165	53.8	6.9	16.9	20.5	1.9	53.8	0.0	0.1	1.9	55.3	52.2
South Africa	3090	26.6	13.6	38.4	16.8	4.5	26.6	0.2	2.4	1.9	25.9	27.5
Thailand	2144	31.1	10.8	34.0	23.0	1.1	31.1	0.0	0.3	0.7	31.7	30.3
Tunisia	1893	9.9	7.2	22.8	52.5	7.6	9.9	0.5	2.7	4.4	8.5	11.4
Turkey	2937	44.0	7.9	23.7	22.5	1.8	44.0	0.1	0.3	1.4	44.4	43.8
United States	3405	49.8	10.8	21.0	17.7	0.8	49.8	0.0	0.2	0.5	48.5	51.1
International Avg.	.	46.7	8.3	21.1	21.1	2.8	46.7	0.1	0.8	1.9	46.4	46.9

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Fractions and Number Sense  
 Label: Fraction of circle shaded ( M012036 - F12 )  
 Item Type = MC Key = C

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	1509	4.0	13.8	67.9	13.5	0.8	67.9	0.1	0.1	0.6	69.1	66.7
Belgium (Flemish)	1963	2.7	10.3	73.5	13.2	0.3	73.5	0.2	0.0	0.1	72.9	74.1
Bulgaria	1232	8.4	15.7	52.8	20.1	3.0	52.8	0.2	0.5	2.3	50.3	55.4
Canada	3286	3.5	11.2	67.9	16.9	0.5	67.9	0.0	0.3	0.3	69.2	66.8
Chile	2183	10.4	14.7	32.0	33.9	9.1	32.0	0.0	5.2	3.9	31.0	33.0
Chinese Taipei	2176	4.0	11.4	61.3	23.2	0.2	61.3	0.0	0.0	0.2	60.2	62.3
Cyprus	1162	7.8	18.5	50.0	23.1	0.6	50.0	0.0	0.1	0.5	49.7	50.3
Czech Republic	1315	8.5	15.8	51.1	21.8	2.9	51.1	0.1	1.0	1.7	55.5	46.3
England	1121	3.3	9.9	72.2	13.8	0.8	72.2	0.0	0.4	0.4	72.8	71.7
Finland	1092	4.2	14.5	56.5	23.4	1.4	56.5	0.0	0.0	1.4	55.2	57.9
Hong Kong, SAR	1944	3.0	7.3	71.5	17.9	0.2	71.5	0.1	0.1	0.1	69.6	73.5
Hungary	1192	4.7	11.6	55.7	24.1	3.9	55.7	0.1	0.8	3.0	56.5	54.9
Indonesia	2187	11.9	20.6	38.6	27.3	1.6	38.6	0.0	0.6	1.1	37.3	40.0
Iran, Islamic Rep.	1987	10.4	12.2	32.2	43.5	1.7	32.2	0.0	0.7	1.0	28.9	34.4
Israel	1554	6.8	11.5	53.7	24.5	3.5	53.7	0.2	1.9	1.4	52.1	55.4
Italy	1238	5.9	11.4	48.3	31.4	3.1	48.3	0.0	1.3	1.9	49.1	47.4
Japan	1787	4.5	12.4	61.0	21.4	0.6	61.0	0.3	0.2	0.2	59.4	62.5
Jordan	1872	13.7	19.1	40.0	25.5	1.7	40.0	0.4	0.4	1.0	38.1	41.7
Korea, Rep. of	2290	5.1	14.1	49.7	30.5	0.6	49.7	0.1	0.1	0.4	47.5	51.8
Latvia (LSS)	1082	9.7	24.3	44.4	19.2	2.4	44.4	0.1	0.7	1.6	41.1	47.8
Lithuania	879	11.3	21.0	31.2	28.8	7.8	31.2	0.0	1.2	6.6	29.2	33.4
Macedonia, Rep. of	1516	18.1	23.5	26.7	24.9	6.7	26.7	0.0	1.7	5.0	24.1	29.1
Malaysia	2094	6.8	13.6	50.0	28.3	1.2	50.0	0.0	0.6	0.7	49.4	50.8
Moldova	1385	17.9	19.3	34.4	25.5	3.1	34.4	0.2	0.9	1.9	34.4	34.3
Morocco	2016	14.4	19.5	32.8	22.3	11.0	32.8	1.1	4.3	5.6	32.0	33.5
Netherlands	1114	2.3	9.9	75.0	12.1	0.7	75.0	0.0	0.2	0.5	76.0	73.9
New Zealand	1371	4.8	15.5	63.5	15.6	0.5	63.5	0.0	0.1	0.4	65.8	61.4
Philippines	2467	14.4	23.4	31.3	29.6	1.4	31.3	0.1	0.4	0.9	32.3	30.1
Romania	1283	15.3	16.1	39.9	25.9	2.9	39.9	0.4	0.6	1.9	42.0	37.8
Russian Federation	1615	8.3	17.6	49.6	19.9	4.6	49.6	0.0	1.1	3.5	48.5	50.8
Singapore	1860	2.3	11.3	71.5	14.6	0.3	71.5	0.1	0.1	0.1	71.5	71.4
Slovak Republic	1306	4.7	11.0	49.1	33.6	1.7	49.1	0.0	0.6	1.1	49.6	48.5
Slovenia	1165	7.6	13.6	58.9	18.4	1.5	58.9	0.1	0.1	1.3	57.6	60.4
South Africa	3090	17.9	22.3	26.1	29.8	4.0	26.1	0.4	2.8	0.8	25.2	27.0
Thailand	2144	7.5	18.2	39.5	33.7	1.0	39.5	0.0	0.3	0.7	39.6	39.4
Tunisia	1893	7.9	17.9	43.2	24.7	6.3	43.2	0.7	2.9	2.7	41.8	44.6
Turkey	2937	15.2	18.1	27.9	35.3	3.5	27.9	0.0	0.4	3.1	25.0	30.0
United States	3405	4.8	12.5	61.6	20.5	0.6	61.6	0.0	0.2	0.4	58.9	64.3
International Avg.	.	8.3	15.4	49.8	24.0	2.6	49.8	0.1	0.9	1.6	49.2	50.4

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Data Representation, Analysis and Probability  
 Label: Test score frequency table ( M012037 - G01 )  
 Item Type = MC Key = B

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	1510	17.5	60.0	18.7	0.9	1.2	1.7	60.0	0.2	0.1	1.5	58.9	61.2
Belgium (Flemish)	1971	14.4	66.8	16.6	0.6	0.6	1.0	66.8	0.1	0.0	0.9	66.1	67.6
Bulgaria	1222	27.0	37.0	15.5	4.0	3.5	13.1	37.0	0.4	0.1	12.6	40.4	33.5
Canada	3312	19.4	54.8	20.7	2.2	1.5	1.4	54.8	0.2	0.0	1.2	55.5	54.2
Chile	2226	27.9	38.5	17.5	4.2	3.3	8.6	38.5	0.0	0.2	8.4	38.8	38.2
Chinese Taipei	2160	5.0	53.0	38.3	2.1	1.3	0.4	53.0	0.0	0.0	0.3	51.6	54.4
Cyprus	1160	19.0	48.1	23.2	3.4	2.3	4.2	48.1	1.1	0.0	3.1	48.5	47.7
Czech Republic	1306	14.8	57.3	21.2	1.8	1.4	3.4	57.3	0.0	0.0	3.4	56.9	57.7
England	1122	19.6	61.8	15.3	0.5	1.1	1.8	61.8	0.3	0.0	1.5	58.5	64.7
Finland	1103	10.3	63.5	23.5	1.3	0.2	1.2	63.5	0.0	0.0	1.2	62.1	64.8
Hong Kong, SAR	1951	8.7	49.6	36.9	2.4	1.5	0.9	49.6	0.1	0.0	0.8	48.6	50.7
Hungary	1185	17.7	59.4	14.4	1.9	0.7	5.8	59.4	0.5	0.0	5.3	58.8	60.3
Indonesia	2196	28.5	52.0	14.3	2.1	2.6	0.5	52.0	0.0	0.0	0.5	51.7	52.3
Iran, Islamic Rep.	1983	25.3	43.3	19.5	4.3	4.1	3.6	43.3	0.0	0.2	3.4	42.2	44.0
Israel	1567	23.0	46.6	17.8	2.0	2.7	7.9	46.6	0.0	0.3	7.6	47.1	46.1
Italy	1242	26.6	48.1	15.0	2.6	1.6	6.2	48.1	0.0	0.2	6.0	49.7	46.3
Japan	1775	3.7	53.2	40.3	1.6	0.9	0.3	53.2	0.0	0.0	0.2	50.1	56.2
Jordan	1890	25.4	51.9	16.2	2.0	3.0	1.5	51.9	0.3	0.0	1.1	54.4	49.7
Korea, Rep. of	2288	2.0	84.5	12.4	0.8	0.2	0.0	84.5	0.0	0.0	0.0	86.6	82.5
Latvia (LSS)	1073	25.6	50.7	16.4	2.1	0.8	4.4	50.7	0.2	0.0	4.2	51.1	50.4
Lithuania	878	28.6	46.2	15.2	2.0	0.9	7.1	46.2	0.0	0.0	7.1	42.0	50.9
Macedonia, Rep. of	1513	26.1	41.4	14.6	3.9	3.8	10.3	41.4	0.5	0.2	9.6	40.3	42.4
Malaysia	2094	10.0	47.7	35.0	3.0	3.0	1.3	47.7	0.0	0.1	1.2	48.6	46.6
Moldova	1387	26.9	45.9	14.3	3.9	5.3	3.7	45.9	0.7	0.3	2.8	45.4	46.6
Morocco	2045	37.8	24.9	17.2	4.1	6.3	9.6	24.9	0.9	0.0	8.7	26.6	23.5
Netherlands	1098	10.9	72.6	15.3	0.2	0.7	0.3	72.6	0.0	0.0	0.3	71.1	74.6
New Zealand	1358	21.5	56.8	17.2	1.2	1.2	2.1	56.8	0.2	0.0	1.9	59.1	54.5
Philippines	2479	28.3	40.3	18.3	4.2	7.5	1.4	40.3	0.3	0.0	1.1	41.3	39.2
Romania	1286	23.5	49.0	19.6	3.0	1.6	3.4	49.0	0.3	0.1	3.0	47.4	50.4
Russian Federation	1641	23.7	54.4	13.8	1.7	2.0	4.5	54.4	0.3	0.1	4.1	56.0	52.8
Singapore	1872	9.7	67.0	21.4	0.9	0.8	0.2	67.0	0.0	0.0	0.2	64.9	68.8
Slovak Republic	1315	19.7	60.6	14.8	1.5	0.7	2.8	60.6	0.4	0.0	2.4	62.7	58.4
Slovenia	1179	8.8	63.6	24.1	1.3	0.9	1.3	63.6	0.1	0.1	1.1	66.0	60.9
South Africa	3109	27.9	24.8	20.9	5.9	17.6	2.9	24.8	0.5	0.4	2.1	22.9	26.9
Thailand	2152	21.4	48.2	22.9	3.6	2.5	1.5	48.2	0.0	0.3	1.2	48.8	47.5
Tunisia	1895	13.2	55.6	21.0	2.1	2.2	6.0	55.6	2.0	0.1	3.8	57.6	53.5
Turkey	2932	23.4	40.4	19.0	6.1	6.4	4.8	40.4	0.0	0.0	4.7	38.3	41.8
United States	3388	20.7	56.4	19.1	2.0	1.2	0.7	56.4	0.0	0.0	0.7	57.9	54.9
International Avg.	.	19.6	52.0	19.9	2.5	2.6	3.5	52.0	0.3	0.1	3.1	52.0	52.0

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Measurement  
 Label: Length of pipe from meter scale ( M012038 - G02 )  
 Item Type = MC Key = C

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	1510	3.9	3.4	80.3	12.1	0.4	80.3	0.0	0.1	0.3	79.9	80.7
Belgium (Flemish)	1971	2.3	1.8	85.6	10.1	0.2	85.6	0.0	0.0	0.2	85.5	85.7
Bulgaria	1222	3.6	4.9	74.8	15.0	1.8	74.8	0.1	0.1	1.6	76.9	72.5
Canada	3312	5.9	2.8	81.1	10.0	0.1	81.1	0.0	0.0	0.1	79.4	82.9
Chile	2226	8.6	7.2	54.5	26.8	2.9	54.5	0.0	0.6	2.3	52.9	56.2
Chinese Taipei	2161	5.3	2.4	89.6	2.5	0.2	89.6	0.0	0.0	0.1	91.4	87.7
Cyprus	1164	6.7	7.2	58.8	26.6	0.7	58.8	0.0	0.0	0.7	58.6	59.0
Czech Republic	1306	3.0	2.5	86.9	7.2	0.4	86.9	0.0	0.0	0.3	87.3	86.4
England	1122	5.2	4.0	77.8	13.1	0.0	77.8	0.0	0.0	0.0	75.2	80.0
Finland	1103	2.9	2.6	86.6	7.7	0.2	86.6	0.0	0.0	0.2	88.1	85.2
Hong Kong, SAR	1951	6.6	1.7	88.1	3.2	0.5	88.1	0.0	0.0	0.4	88.9	87.3
Hungary	1185	3.5	2.3	86.8	6.9	0.6	86.8	0.0	0.0	0.6	86.2	87.3
Indonesia	2196	8.0	4.4	52.7	34.5	0.4	52.7	0.0	0.0	0.4	54.2	51.4
Iran, Islamic Rep.	1983	4.8	4.6	45.8	43.0	1.7	45.8	0.0	0.2	1.5	39.6	50.0
Israel	1568	6.5	6.8	62.7	22.2	1.8	62.7	0.1	0.7	1.0	61.1	64.2
Italy	1242	5.1	5.8	71.3	17.1	0.7	71.3	0.0	0.2	0.5	69.9	72.7
Japan	1775	1.8	0.6	94.9	2.7	0.1	94.9	0.0	0.0	0.1	94.6	95.1
Jordan	1890	5.2	11.1	40.9	42.1	0.7	40.9	0.1	0.0	0.6	38.2	43.3
Korea, Rep. of	2288	3.2	0.9	93.2	2.7	0.0	93.2	0.0	0.0	0.0	93.9	92.6
Latvia (LSS)	1074	5.0	4.9	78.6	11.1	0.3	78.6	0.0	0.1	0.2	74.6	82.8
Lithuania	878	3.9	4.4	82.9	8.3	0.5	82.9	0.0	0.1	0.4	83.4	82.3
Macedonia, Rep. of	1513	6.0	4.9	66.3	19.2	3.5	66.3	0.1	0.4	3.1	65.8	66.9
Malaysia	2094	4.3	2.7	88.4	4.2	0.3	88.4	0.0	0.1	0.2	88.3	88.5
Moldova	1387	7.4	5.7	62.9	23.1	0.9	62.9	0.0	0.3	0.6	62.4	63.7
Morocco	2044	6.7	7.2	39.2	43.8	3.0	39.2	0.3	0.0	2.7	35.5	41.6
Netherlands	1098	4.4	3.5	85.3	6.7	0.0	85.3	0.0	0.0	0.0	84.6	86.3
New Zealand	1358	6.4	5.2	76.2	12.0	0.2	76.2	0.0	0.1	0.1	75.7	76.7
Philippines	2479	12.9	11.8	44.4	30.0	1.0	44.4	0.0	0.0	0.9	45.0	43.6
Romania	1287	5.1	5.2	67.9	20.6	1.2	67.9	0.1	0.1	1.1	66.0	69.7
Russian Federation	1641	4.7	3.4	83.0	7.9	1.0	83.0	0.2	0.1	0.7	82.8	83.3
Singapore	1872	1.8	0.8	96.8	0.6	0.0	96.8	0.0	0.0	0.0	96.9	96.7
Slovak Republic	1315	3.1	1.9	86.7	7.7	0.6	86.7	0.0	0.0	0.6	85.1	88.3
Slovenia	1179	3.7	3.3	85.4	7.4	0.2	85.4	0.1	0.1	0.0	84.2	86.7
South Africa	3109	8.5	11.7	44.7	33.2	1.8	44.7	0.1	0.7	1.1	43.8	45.7
Thailand	2152	5.9	6.2	69.2	18.2	0.5	69.2	0.0	0.3	0.2	70.1	68.2
Tunisia	1895	4.7	3.9	60.9	29.1	1.3	60.9	0.4	0.1	0.7	59.9	62.1
Turkey	2932	6.4	5.7	41.8	44.7	1.4	41.8	0.0	0.0	1.3	39.0	43.7
United States	3388	5.5	3.9	72.5	17.7	0.4	72.5	0.0	0.0	0.3	71.2	73.7
International Avg.	.	5.2	4.6	72.3	17.1	0.8	72.3	0.0	0.1	0.7	71.5	72.9

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Geometry  
 Label: Sum of angles from intersecting lines ( M012039 - G03 )  
 Item Type = MC Key = C

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	1510	3.5	33.5	53.8	6.4	2.2	0.6	53.8	0.1	0.1	0.5	51.5	56.1
Belgium (Flemish)	1971	5.0	29.6	58.7	4.0	1.3	1.5	58.7	0.1	0.0	1.3	56.1	61.3
Bulgaria	1222	2.3	13.2	70.8	7.1	3.7	2.9	70.8	0.1	0.1	2.7	72.4	69.2
Canada	3312	4.4	34.1	52.7	5.2	3.1	0.5	52.7	0.0	0.0	0.5	50.8	54.6
Chile	2226	11.2	29.8	34.1	12.5	7.6	4.7	34.1	0.0	0.7	4.1	32.8	35.5
Chinese Taipei	2160	1.5	8.7	83.5	5.0	1.3	0.1	83.5	0.0	0.0	0.1	84.1	82.8
Cyprus	1165	6.8	32.9	49.3	7.4	2.7	0.9	49.3	0.0	0.0	0.9	50.2	48.5
Czech Republic	1305	6.5	36.5	49.2	4.4	2.7	0.6	49.2	0.0	0.0	0.6	46.5	52.0
England	1122	4.9	39.2	46.6	7.1	1.5	0.8	46.6	0.0	0.0	0.8	41.0	51.6
Finland	1103	3.6	23.7	63.4	5.2	2.9	1.2	63.4	0.0	0.0	1.2	63.6	63.2
Hong Kong, SAR	1951	1.3	15.2	81.2	1.4	0.7	0.1	81.2	0.0	0.0	0.1	82.6	79.9
Hungary	1185	8.4	30.0	53.4	3.7	2.0	2.5	53.4	0.2	0.0	2.3	51.1	55.5
Indonesia	2196	7.5	23.5	40.6	10.0	16.7	1.7	40.6	0.0	0.0	1.6	37.7	43.5
Iran, Islamic Rep.	1983	4.0	19.8	49.3	12.5	12.9	1.5	49.3	0.0	0.2	1.3	43.7	53.0
Israel	1568	5.4	30.9	44.7	9.4	5.4	4.2	44.7	0.1	0.7	3.4	41.8	47.4
Italy	1242	4.8	25.1	52.1	8.9	5.7	3.3	52.1	0.0	0.2	3.2	52.6	51.6
Japan	1775	1.7	17.3	79.0	1.4	0.5	0.1	79.0	0.0	0.0	0.1	78.3	79.7
Jordan	1893	5.7	24.7	40.6	17.6	10.2	1.3	40.6	0.2	0.0	1.1	37.3	43.5
Korea, Rep. of	2288	1.0	10.0	86.0	2.4	0.6	0.0	86.0	0.0	0.0	0.0	86.3	85.7
Latvia (LSS)	1074	1.9	17.2	66.6	7.5	5.0	1.8	66.6	0.1	0.1	1.5	62.7	70.6
Lithuania	878	5.2	23.2	50.6	9.6	7.6	3.8	50.6	0.0	0.1	3.7	51.0	50.0
Macedonia, Rep. of	1513	6.3	21.1	47.5	10.0	9.0	6.1	47.5	0.0	0.4	5.7	44.3	50.6
Malaysia	2094	2.3	15.2	71.0	6.1	4.6	0.9	71.0	0.0	0.2	0.7	71.5	70.4
Moldova	1388	8.1	17.2	48.9	13.2	9.9	2.6	48.9	0.0	0.3	2.4	48.2	49.9
Morocco	2049	8.6	17.7	31.1	23.6	12.4	6.6	31.1	0.2	0.0	6.3	27.9	33.1
Netherlands	1098	6.7	27.3	59.0	4.9	1.8	0.3	59.0	0.0	0.0	0.2	57.0	61.4
New Zealand	1357	5.3	33.6	49.7	8.2	2.2	0.9	49.7	0.1	0.1	0.8	49.7	49.7
Philippines	2479	14.3	24.7	21.9	18.9	19.1	1.0	21.9	0.1	0.0	0.9	21.9	21.9
Romania	1287	4.7	18.3	62.3	7.0	5.4	2.4	62.3	0.1	0.2	2.0	66.3	58.7
Russian Federation	1641	3.4	20.8	64.6	5.2	2.9	3.0	64.6	0.8	0.1	2.1	63.1	66.2
Singapore	1872	0.7	12.3	85.4	1.0	0.5	0.1	85.4	0.0	0.0	0.1	87.2	83.7
Slovak Republic	1315	5.0	22.6	62.4	3.9	4.4	1.5	62.4	0.0	0.0	1.5	64.5	60.2
Slovenia	1179	4.1	27.0	58.0	4.2	3.7	3.0	58.0	0.1	0.1	2.8	54.3	62.0
South Africa	3109	9.8	21.7	16.4	41.0	9.2	1.9	16.4	0.5	0.7	0.7	14.7	18.2
Thailand	2152	7.5	30.2	48.6	7.2	5.5	1.0	48.6	0.0	0.3	0.7	48.2	49.1
Tunisia	1897	3.0	21.6	66.8	5.1	1.9	1.6	66.8	0.5	0.2	0.9	62.5	71.4
Turkey	2930	7.0	18.8	46.2	14.1	12.1	1.8	46.2	0.0	0.0	1.8	44.4	47.4
United States	3388	7.9	26.9	43.3	13.2	7.9	0.9	43.3	0.1	0.0	0.8	43.4	43.3
International Avg.	.	5.3	23.6	55.0	8.8	5.5	1.8	55.0	0.1	0.1	1.6	53.8	56.1

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent



Mathematics: Algebra  
 Label: Find n from proportionality equation ( M012040 - G04 )  
 Item Type = MC Key = B

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	1510	8.5	80.6	6.0	3.4	1.4	80.6	0.1	0.1	1.2	80.0	81.3
Belgium (Flemish)	1971	3.6	86.0	5.1	3.2	2.0	86.0	0.3	0.0	1.7	85.2	86.9
Bulgaria	1222	10.1	66.1	11.7	7.3	4.7	66.1	0.1	0.2	4.4	68.3	63.9
Canada	3312	7.2	84.9	3.2	4.0	0.7	84.9	0.0	0.0	0.7	83.6	86.4
Chile	2226	10.8	51.5	18.7	12.6	6.5	51.5	0.0	1.0	5.4	49.4	53.5
Chinese Taipei	2161	4.2	85.1	5.3	5.4	0.0	85.1	0.0	0.0	0.0	85.2	84.9
Cyprus	1161	8.0	69.5	11.4	10.0	1.1	69.5	0.1	0.0	1.0	68.4	70.6
Czech Republic	1305	11.2	73.4	5.8	8.1	1.5	73.4	0.1	0.0	1.4	72.1	74.8
England	1122	13.7	64.9	11.7	8.3	1.5	64.9	0.0	0.0	1.5	63.4	66.2
Finland	1103	16.4	66.2	8.7	7.2	1.5	66.2	0.0	0.0	1.5	61.5	70.9
Hong Kong, SAR	1951	3.2	88.6	3.0	5.2	0.1	88.6	0.1	0.0	0.1	89.4	87.7
Hungary	1185	7.9	76.3	4.7	8.5	2.7	76.3	0.0	0.2	2.5	74.5	78.0
Indonesia	2196	18.1	62.5	10.3	8.4	0.7	62.5	0.0	0.0	0.7	62.8	62.1
Iran, Islamic Rep.	1983	10.5	69.4	10.6	7.7	1.8	69.4	0.0	0.2	1.6	68.7	69.8
Israel	1568	12.1	65.0	9.6	9.2	4.2	65.0	0.0	0.8	3.4	64.1	65.8
Italy	1242	12.0	62.4	12.5	9.3	3.8	62.4	0.0	0.2	3.6	62.3	62.5
Japan	1775	6.4	82.6	5.0	5.6	0.4	82.6	0.0	0.0	0.4	80.8	84.4
Jordan	1893	8.7	55.2	22.8	12.1	1.2	55.2	0.1	0.0	1.0	55.3	55.1
Korea, Rep. of	2288	3.2	88.0	3.4	5.2	0.1	88.0	0.0	0.0	0.1	88.4	87.7
Latvia (LSS)	1074	12.2	66.8	10.1	8.4	2.5	66.8	0.0	0.1	2.4	66.0	67.9
Lithuania	878	13.4	58.4	14.5	8.7	5.0	58.4	0.0	0.1	4.9	57.1	59.9
Macedonia, Rep. of	1513	12.4	56.3	13.2	10.4	7.7	56.3	0.2	0.5	6.9	57.5	55.1
Malaysia	2094	5.5	87.3	3.3	3.1	0.8	87.3	0.0	0.2	0.5	88.0	86.5
Moldova	1388	9.2	54.8	22.2	11.0	2.8	54.8	0.0	0.3	2.5	56.4	52.8
Morocco	2049	15.3	30.2	32.6	14.7	7.2	30.2	0.4	0.1	6.6	29.4	30.8
Netherlands	1098	11.0	80.5	3.9	4.3	0.4	80.5	0.1	0.1	0.3	78.8	82.5
New Zealand	1357	12.6	69.2	9.5	7.9	0.8	69.2	0.0	0.1	0.7	68.6	69.8
Philippines	2479	18.2	43.3	22.5	15.0	1.0	43.3	0.1	0.0	0.9	45.5	40.8
Romania	1287	7.3	56.1	17.4	7.3	11.9	56.1	0.2	0.3	11.4	57.1	55.2
Russian Federation	1641	9.4	72.5	10.1	4.5	3.4	72.5	0.4	0.1	2.9	74.0	71.0
Singapore	1872	2.0	94.1	1.6	2.1	0.2	94.1	0.0	0.0	0.2	94.3	93.9
Slovak Republic	1315	11.4	74.7	6.1	5.9	2.0	74.7	0.0	0.1	1.9	74.7	74.7
Slovenia	1179	10.4	76.9	6.6	4.3	1.8	76.9	0.1	0.1	1.7	75.9	78.0
South Africa	3109	18.0	26.4	33.8	19.8	2.0	26.4	0.2	0.7	1.0	23.8	29.3
Thailand	2152	12.0	65.6	12.9	8.3	1.2	65.6	0.0	0.4	0.8	65.8	65.3
Tunisia	1897	8.4	77.5	7.0	5.1	2.0	77.5	0.5	0.4	1.1	77.0	78.0
Turkey	2930	10.2	57.7	16.2	13.2	2.7	57.7	0.0	0.0	2.6	59.8	56.2
United States	3388	9.4	76.7	5.2	8.0	0.8	76.7	0.0	0.0	0.7	77.3	76.1
International Avg.	.	10.1	68.5	11.0	8.0	2.4	68.5	0.1	0.2	2.2	68.2	68.8

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Fractions and Number Sense  
 Label: Fraction birthdays in first half of year ( M012041 - G05 )  
 Item Type = MC Key = D

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	1510	2.4	4.8	20.9	70.6	0.8	0.5	70.6	0.0	0.1	0.5	72.7	68.3
Belgium (Flemish)	1971	2.0	4.6	14.6	75.9	2.6	0.3	75.9	0.1	0.0	0.2	76.9	74.9
Bulgaria	1222	2.4	6.6	28.5	54.6	3.6	4.3	54.6	0.4	0.2	3.7	56.2	53.0
Canada	3312	3.7	3.5	16.3	75.8	0.5	0.2	75.8	0.0	0.0	0.2	75.9	75.9
Chile	2226	4.3	9.4	40.2	37.4	4.4	4.4	37.4	0.0	1.2	3.2	38.8	36.0
Chinese Taipei	2161	1.1	10.8	8.1	79.2	0.7	0.1	79.2	0.0	0.0	0.1	81.1	77.3
Cyprus	1160	1.5	8.2	22.0	64.2	2.8	1.3	64.2	0.2	0.0	1.1	67.2	61.4
Czech Republic	1306	3.2	5.0	28.0	57.0	5.0	1.8	57.0	0.1	0.0	1.7	55.2	58.9
England	1122	3.3	4.7	15.6	74.7	1.3	0.5	74.7	0.1	0.0	0.4	72.5	76.7
Finland	1103	3.1	4.7	11.4	77.7	1.9	1.1	77.7	0.0	0.0	1.1	80.4	75.1
Hong Kong, SAR	1951	1.5	6.4	5.7	85.5	0.6	0.2	85.5	0.0	0.0	0.2	86.3	84.8
Hungary	1185	2.5	6.1	28.4	53.0	7.2	2.8	53.0	0.1	0.3	2.4	53.2	52.9
Indonesia	2196	5.8	9.7	35.0	44.6	4.0	0.9	44.6	0.0	0.0	0.9	46.4	42.9
Iran, Islamic Rep.	1983	5.4	11.4	29.1	46.6	5.4	2.2	46.6	0.0	0.2	2.0	45.1	47.6
Israel	1568	4.5	6.1	16.8	65.2	4.0	3.5	65.2	0.0	0.8	2.7	65.4	65.1
Italy	1242	3.4	7.5	25.7	58.4	3.1	1.9	58.4	0.0	0.2	1.7	58.6	58.3
Japan	1775	4.9	14.4	10.0	68.8	1.5	0.4	68.8	0.0	0.0	0.4	68.3	69.3
Jordan	1893	5.5	9.5	37.8	40.4	4.8	1.9	40.4	0.3	0.0	1.5	41.2	39.8
Korea, Rep. of	2288	2.3	3.7	3.4	89.8	0.8	0.1	89.8	0.0	0.0	0.1	91.5	88.0
Latvia (LSS)	1072	3.6	10.4	29.3	51.1	3.9	1.6	51.1	0.1	0.1	1.5	54.1	47.9
Lithuania	878	3.4	9.1	40.2	38.0	6.8	2.7	38.0	0.0	0.1	2.6	39.9	35.8
Macedonia, Rep. of	1513	4.9	8.9	39.5	33.2	4.4	9.1	33.2	0.5	0.6	7.9	35.2	31.3
Malaysia	2094	3.7	5.5	11.2	77.2	1.3	1.2	77.2	0.1	0.2	0.9	80.3	73.5
Moldova	1388	5.9	11.9	43.3	33.0	3.7	2.1	33.0	0.5	0.3	1.3	31.6	34.8
Morocco	2047	5.5	16.2	45.8	18.4	8.8	5.3	18.4	0.5	0.2	4.7	19.8	17.4
Netherlands	1098	2.3	2.3	9.2	85.4	0.5	0.3	85.4	0.0	0.1	0.2	85.2	85.7
New Zealand	1358	3.4	5.5	19.5	70.1	1.1	0.4	70.1	0.0	0.1	0.4	73.0	67.1
Philippines	2479	6.4	14.9	49.1	24.9	4.0	0.7	24.9	0.1	0.0	0.6	29.1	20.2
Romania	1287	4.9	8.2	39.6	37.1	6.5	3.7	37.1	0.2	0.3	3.2	38.8	35.5
Russian Federation	1641	3.3	5.9	25.6	57.7	4.8	2.7	57.7	0.1	0.1	2.5	58.9	56.4
Singapore	1872	1.4	0.8	6.5	90.8	0.2	0.3	90.8	0.0	0.0	0.2	92.3	89.4
Slovak Republic	1315	3.2	5.9	23.0	60.6	5.7	1.7	60.6	0.0	0.1	1.5	63.0	58.1
Slovenia	1179	4.2	5.4	18.6	67.9	2.3	1.7	67.9	0.0	0.1	1.6	70.7	64.8
South Africa	3109	7.2	18.0	39.6	25.1	7.9	2.2	25.1	0.5	0.8	0.9	26.4	23.7
Thailand	2152	3.3	7.7	28.3	57.3	2.6	0.7	57.3	0.0	0.4	0.4	62.4	51.5
Tunisia	1897	2.7	6.0	34.7	46.1	5.7	4.6	46.1	1.5	0.4	2.8	44.8	47.5
Turkey	2929	8.0	12.6	27.2	40.3	9.4	2.4	40.3	0.0	0.0	2.4	42.7	38.8
United States	3388	3.5	6.6	17.8	71.0	0.7	0.4	71.0	0.0	0.0	0.3	74.3	67.8
International Avg.	.	3.8	7.9	24.9	58.0	3.6	1.9	58.0	0.1	0.2	1.6	59.4	56.7

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Algebra  
 Label: Value of -3x given value of x ( M012042 - G06 )  
 Item Type = MC Key = E

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	1510	25.3	15.1	3.6	4.0	50.8	1.2	50.8	0.3	0.1	0.9	50.9	50.6
Belgium (Flemish)	1971	14.2	10.2	2.6	2.7	68.7	1.6	68.7	0.1	0.0	1.5	70.3	67.1
Bulgaria	1222	10.7	5.9	5.4	9.2	65.4	3.3	65.4	0.2	0.2	2.9	68.7	62.1
Canada	3312	26.3	9.8	2.7	3.1	57.7	0.5	57.7	0.0	0.0	0.5	58.8	56.5
Chile	2226	29.4	26.8	12.9	6.9	17.1	6.8	17.1	0.0	1.5	5.3	17.5	16.7
Chinese Taipei	2161	7.7	5.5	2.4	2.7	81.6	0.1	81.6	0.0	0.0	0.1	82.3	80.9
Cyprus	1159	27.9	18.0	4.3	7.7	40.7	1.4	40.7	0.1	0.0	1.3	43.4	38.3
Czech Republic	1306	15.6	11.8	4.4	9.0	57.9	1.2	57.9	0.0	0.0	1.2	59.6	56.3
England	1122	35.0	26.3	4.9	6.7	25.4	1.6	25.4	0.1	0.0	1.6	21.2	29.1
Finland	1103	24.6	40.7	3.0	3.1	27.8	0.9	27.8	0.0	0.0	0.9	25.7	29.9
Hong Kong, SAR	1951	8.9	4.5	1.5	2.9	81.9	0.3	81.9	0.1	0.0	0.2	81.1	82.7
Hungary	1185	14.3	5.4	1.6	2.6	74.1	2.0	74.1	0.0	0.3	1.7	78.0	70.3
Indonesia	2196	27.8	14.1	6.1	9.5	41.2	1.3	41.2	0.1	0.0	1.2	44.9	37.7
Iran, Islamic Rep.	1983	23.2	11.3	7.9	6.1	49.5	2.0	49.5	0.0	0.3	1.8	50.7	48.6
Israel	1568	16.9	11.9	5.3	7.0	55.1	3.7	55.1	0.0	0.8	2.9	57.0	53.5
Italy	1242	22.3	21.2	6.7	7.0	38.9	4.0	38.9	0.0	0.3	3.6	41.0	36.7
Japan	1775	6.6	7.0	2.0	7.9	76.1	0.4	76.1	0.0	0.0	0.4	75.6	76.5
Jordan	1893	21.7	22.1	9.8	6.7	38.5	1.2	38.5	0.2	0.0	0.9	42.7	34.7
Korea, Rep. of	2288	8.3	8.5	1.9	2.6	78.6	0.0	78.6	0.0	0.0	0.0	78.6	78.6
Latvia (LSS)	1072	14.7	8.6	3.8	7.3	63.9	1.7	63.9	0.0	0.1	1.7	65.0	62.8
Lithuania	878	12.4	7.5	4.7	11.2	62.8	1.3	62.8	0.0	0.1	1.2	65.2	60.2
Macedonia, Rep. of	1513	14.8	12.3	7.3	7.2	52.5	5.9	52.5	0.1	0.7	5.1	57.8	47.5
Malaysia	2094	24.0	15.4	4.4	5.9	49.2	1.1	49.2	0.0	0.2	0.9	51.8	46.2
Moldova	1388	24.0	12.5	5.2	7.0	48.6	2.6	48.6	0.7	0.3	1.6	50.6	46.0
Morocco	2048	32.2	22.6	14.1	6.6	18.8	5.6	18.8	0.1	0.2	5.2	20.4	17.7
Netherlands	1098	21.1	10.3	7.3	15.7	44.3	1.2	44.3	0.1	0.1	1.0	44.3	44.3
New Zealand	1358	30.4	25.6	5.5	6.0	31.5	1.1	31.5	0.1	0.1	1.0	34.5	28.3
Philippines	2479	42.7	20.2	8.8	6.8	20.8	0.7	20.8	0.0	0.2	0.6	22.8	18.6
Romania	1287	13.1	10.0	8.5	10.8	54.6	3.0	54.6	0.0	0.3	2.7	61.6	48.2
Russian Federation	1641	9.0	3.6	3.0	5.8	76.7	2.0	76.7	0.0	0.1	1.8	77.3	76.0
Singapore	1872	12.6	6.6	1.7	3.3	75.5	0.3	75.5	0.0	0.0	0.3	75.6	75.4
Slovak Republic	1315	12.9	6.9	2.7	8.1	68.0	1.3	68.0	0.0	0.1	1.2	72.8	62.8
Slovenia	1179	12.1	8.1	1.4	8.2	68.7	1.4	68.7	0.0	0.1	1.3	72.0	65.0
South Africa	3109	31.9	27.9	15.1	7.8	15.0	2.3	15.0	0.1	0.8	1.4	15.6	14.3
Thailand	2152	25.7	16.0	6.8	7.7	43.0	0.7	43.0	0.0	0.4	0.4	44.6	41.2
Tunisia	1897	23.2	13.6	5.6	7.3	46.8	3.5	46.8	1.0	0.5	2.0	46.3	47.5
Turkey	2929	23.3	13.7	9.6	11.6	39.6	2.2	39.6	0.0	0.0	2.2	41.4	38.5
United States	3388	21.7	9.2	4.0	5.5	59.0	0.6	59.0	0.1	0.1	0.4	59.8	58.1
International Avg.	.	20.2	13.9	5.5	6.8	51.7	1.9	51.7	0.1	0.2	1.6	53.3	50.1

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Data Representation, Analysis and Probability  
 Label: Barchart histogram of travel time ( M012043 - H07 )  
 Item Type = MC Key = C

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	1509	2.5	10.3	79.4	2.8	4.3	0.7	79.4	0.3	0.0	0.4	81.5	77.2
Belgium (Flemish)	1986	0.5	11.6	81.5	3.1	3.0	0.3	81.5	0.2	0.0	0.1	82.8	80.3
Bulgaria	.	.	.	.	.	.	.	.	.	.	.	.	.
Canada	2354	4.2	8.4	77.6	4.4	5.1	0.2	77.6	0.1	0.0	0.1	78.8	76.5
Chile	2213	16.7	19.1	45.8	4.2	9.7	4.4	45.8	0.0	1.3	3.1	45.9	45.8
Chinese Taipei	2167	3.4	5.1	82.4	3.3	5.7	0.1	82.4	0.0	0.0	0.1	82.5	82.3
Cyprus	1158	9.5	17.9	58.2	5.2	7.4	1.7	58.2	1.2	0.0	0.5	56.5	59.9
Czech Republic	1287	3.2	16.4	70.0	4.6	4.5	1.2	70.0	0.4	0.1	0.7	70.0	70.1
England	1090	1.9	10.4	83.0	1.5	3.1	0.1	83.0	0.0	0.0	0.1	84.1	82.0
Finland	1084	1.5	11.9	77.6	3.1	3.8	2.0	77.6	0.0	0.0	2.0	77.2	78.0
Hong Kong, SAR	1933	0.5	3.4	91.4	2.0	2.3	0.4	91.4	0.1	0.0	0.3	91.9	91.0
Hungary	1189	5.4	15.4	68.7	3.6	3.8	3.2	68.7	1.3	0.4	1.5	69.3	68.2
Indonesia	2185	9.3	27.0	52.4	2.8	7.4	1.1	52.4	0.0	0.2	0.9	51.6	53.1
Iran, Islamic Rep.	1987	9.9	23.5	38.5	14.6	11.1	2.4	38.5	0.0	0.1	2.2	36.5	39.8
Israel	1575	8.2	17.0	59.2	5.2	7.4	3.0	59.2	0.4	0.7	1.8	59.4	59.0
Italy	1235	13.9	16.2	59.5	2.9	6.5	1.0	59.5	0.1	0.0	1.0	59.3	59.6
Japan	1793	1.3	8.5	84.3	2.6	3.1	0.1	84.3	0.0	0.1	0.0	83.8	84.8
Jordan	1888	10.0	18.2	50.3	7.4	12.7	1.5	50.3	0.3	0.1	1.1	50.9	49.8
Korea, Rep. of	2292	1.4	2.2	93.0	1.7	1.7	0.0	93.0	0.0	0.0	0.0	92.8	93.1
Latvia (LSS)	1081	4.7	24.1	61.3	2.8	4.9	2.2	61.3	1.2	0.0	1.0	60.8	61.8
Lithuania	896	9.0	22.2	58.2	3.2	5.6	1.8	58.2	0.0	0.0	1.8	57.8	58.6
Macedonia, Rep. of	1512	9.7	24.5	44.9	5.8	9.5	5.6	44.9	0.6	0.4	4.6	44.0	45.8
Malaysia	2084	2.0	7.0	45.8	37.4	7.5	0.3	45.8	0.0	0.0	0.3	44.8	47.0
Moldova	1158	12.5	11.1	60.2	8.0	6.4	1.8	60.2	0.3	0.7	0.8	60.0	60.5
Morocco	2041	16.5	20.7	36.0	8.4	12.6	6.0	36.0	1.7	1.4	2.9	36.4	35.7
Netherlands	1107	1.0	11.9	82.0	2.3	2.2	0.7	82.0	0.0	0.0	0.7	84.5	79.4
New Zealand	1357	2.8	10.1	78.7	2.7	5.1	0.6	78.7	0.2	0.2	0.2	81.4	76.2
Philippines	2452	5.5	22.6	50.6	6.7	13.1	1.4	50.6	0.1	0.2	1.1	51.3	49.8
Romania	1274	17.8	18.6	47.4	6.9	5.5	3.8	47.4	1.3	0.3	2.2	47.1	47.8
Russian Federation	1635	7.2	23.3	59.1	2.8	4.3	3.2	59.1	1.3	0.2	1.7	59.9	58.1
Singapore	1849	0.9	4.9	91.1	1.6	1.5	0.1	91.1	0.0	0.0	0.1	91.5	90.6
Slovak Republic	1318	5.1	18.7	65.2	4.4	5.1	1.5	65.2	0.5	0.0	0.9	64.8	65.7
Slovenia	1172	2.1	15.1	76.7	2.7	2.6	0.9	76.7	0.7	0.0	0.2	77.0	76.3
South Africa	2558	9.8	17.1	21.4	6.9	41.8	3.1	21.4	0.2	1.6	1.3	20.8	22.1
Thailand	2162	7.1	11.9	71.8	2.7	6.4	0.1	71.8	0.0	0.0	0.1	72.2	71.4
Tunisia	1901	9.8	14.8	50.8	7.3	8.1	9.1	50.8	5.7	0.7	2.6	47.4	54.7
Turkey	2936	14.5	15.9	48.8	8.9	10.1	1.9	48.8	0.0	0.0	1.9	47.3	49.8
United States	3356	3.4	10.6	76.7	3.4	5.5	0.4	76.7	0.0	0.0	0.3	77.2	76.1
International Avg.	.	6.6	14.8	64.3	5.4	7.0	1.8	64.3	0.5	0.2	1.1	64.4	64.3

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Fractions and Number Sense  
 Label: Figure showing fraction of shaded square ( M012044 - H08 )  
 Item Type = MC Key = E

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	1509	6.9	4.8	0.9	1.2	85.0	1.2	85.0	0.6	0.0	0.6	87.1	82.8
Belgium (Flemish)	1986	1.6	1.1	1.1	1.8	93.9	0.5	93.9	0.3	0.0	0.2	95.9	92.0
Bulgaria	1223	20.4	10.2	2.3	2.1	58.7	6.3	58.7	0.6	0.5	5.3	54.4	63.2
Canada	3272	4.0	1.6	0.9	1.0	91.3	1.1	91.3	1.0	0.0	0.2	92.5	90.1
Chile	2214	31.0	4.6	1.5	1.7	56.5	4.7	56.5	0.0	1.6	3.1	59.8	53.2
Chinese Taipei	2166	5.1	3.1	0.8	1.4	87.8	1.9	87.8	0.5	0.0	1.4	89.8	85.7
Cyprus	1158	6.4	2.5	0.9	1.2	86.9	2.1	86.9	0.4	0.0	1.7	87.4	86.4
Czech Republic	1287	16.6	6.0	4.3	5.0	65.3	2.7	65.3	0.7	0.5	1.6	60.0	70.6
England	1090	10.9	3.5	1.1	0.7	81.5	2.3	81.5	1.3	0.0	1.0	81.0	82.0
Finland	1084	2.8	1.8	1.3	0.8	87.4	5.9	87.4	0.0	0.0	5.9	88.0	86.7
Hong Kong, SAR	1933	2.0	1.3	0.5	1.1	93.7	1.4	93.7	0.0	0.0	1.4	95.7	91.8
Hungary	1189	12.0	4.4	0.6	1.4	78.3	3.3	78.3	1.3	0.4	1.5	78.7	78.2
Indonesia	2185	47.3	11.7	3.1	5.6	31.1	1.2	31.1	0.0	0.3	0.9	32.7	29.6
Iran, Islamic Rep.	1988	8.9	6.2	1.2	4.4	75.6	3.7	75.6	0.0	0.1	3.6	76.0	75.3
Israel	1575	13.4	5.6	1.3	3.1	72.6	3.9	72.6	0.5	0.9	2.6	71.5	73.7
Italy	1235	17.1	13.9	2.1	2.1	63.2	1.6	63.2	0.0	0.0	1.6	62.9	63.6
Japan	1793	6.9	1.0	0.7	1.6	88.8	1.1	88.8	0.7	0.1	0.4	90.0	87.6
Jordan	1890	25.6	7.2	2.3	5.6	53.7	5.6	53.7	1.0	0.1	4.4	57.8	50.1
Korea, Rep. of	2292	4.6	5.5	0.9	1.6	87.3	0.1	87.3	0.0	0.0	0.1	86.9	87.6
Latvia (LSS)	1081	17.6	7.6	3.2	2.6	66.0	2.9	66.0	1.4	0.0	1.5	64.5	67.6
Lithuania	896	39.2	8.5	2.0	3.0	45.5	1.9	45.5	0.0	0.0	1.9	43.1	48.0
Macedonia, Rep. of	1512	32.6	6.7	2.9	2.4	48.5	7.0	48.5	1.3	0.5	5.2	50.4	46.7
Malaysia	2084	5.6	3.3	1.6	2.5	86.1	1.0	86.1	0.0	0.0	0.9	87.4	84.7
Moldova	1396	33.9	11.2	3.6	2.8	43.2	5.3	43.2	0.9	0.7	3.6	43.2	43.2
Morocco	2041	43.7	25.5	5.6	9.2	7.4	8.6	7.4	1.2	1.7	5.7	7.0	7.6
Netherlands	1107	3.1	3.0	0.2	1.1	91.6	1.0	91.6	0.3	0.0	0.7	90.4	92.7
New Zealand	1357	11.0	4.7	1.1	1.5	79.6	2.1	79.6	0.9	0.2	1.0	82.7	76.6
Philippines	2452	37.7	7.0	1.4	3.8	45.5	4.5	45.5	0.1	0.2	4.2	50.0	40.5
Romania	1275	28.4	15.8	3.5	4.2	41.0	7.1	41.0	1.8	0.3	5.0	41.3	40.7
Russian Federation	1635	22.2	9.1	2.9	1.6	60.7	3.5	60.7	0.6	0.5	2.3	62.9	58.2
Singapore	1849	2.3	0.6	0.1	0.5	96.3	0.3	96.3	0.1	0.0	0.2	97.0	95.5
Slovak Republic	1318	13.0	6.3	3.8	3.1	72.2	1.5	72.2	0.3	0.0	1.2	72.2	72.3
Slovenia	1172	12.8	3.6	1.2	1.6	77.7	3.0	77.7	1.3	0.0	1.7	78.1	77.1
South Africa	3069	39.2	13.1	3.0	3.9	20.8	20.0	20.8	0.5	1.6	17.9	22.2	19.2
Thailand	2162	23.2	2.5	0.4	1.2	70.8	1.9	70.8	0.0	0.0	1.9	73.1	67.9
Tunisia	1900	20.5	7.6	1.9	3.3	48.4	18.3	48.4	11.4	0.9	6.0	44.8	52.4
Turkey	2936	31.9	8.3	1.1	2.6	53.4	2.6	53.4	0.0	0.0	2.6	57.5	50.5
United States	3356	8.1	2.9	1.1	1.3	86.2	0.4	86.2	0.0	0.1	0.4	86.4	86.1
International Avg.	.	17.6	6.4	1.8	2.5	67.9	3.8	67.9	0.8	0.3	2.7	68.5	67.3

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Fractions and Number Sense  
 Label: Sum closest to 691 + 208 ( M012045 - H09 )  
 Item Type = MC Key = B

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	1509	3.5	91.1	2.3	2.8	0.4	91.1	0.0	0.0	0.3	91.2	90.9
Belgium (Flemish)	1986	1.7	96.2	1.5	0.6	0.1	96.2	0.0	0.0	0.0	96.1	96.2
Bulgaria	1223	5.8	85.5	5.2	2.3	1.2	85.5	0.0	0.5	0.8	83.4	87.8
Canada	3272	3.1	93.1	2.8	0.9	0.1	93.1	0.0	0.0	0.1	94.0	92.4
Chile	2214	16.8	64.7	12.1	3.1	3.3	64.7	0.0	1.8	1.5	60.7	68.5
Chinese Taipei	2167	5.8	89.4	3.9	0.9	0.0	89.4	0.0	0.0	0.0	90.3	88.4
Cyprus	1159	7.3	85.3	4.9	1.8	0.6	85.3	0.0	0.0	0.6	84.4	86.3
Czech Republic	1287	3.3	91.2	4.3	0.6	0.5	91.2	0.0	0.5	0.1	89.7	92.7
England	1090	3.3	91.9	4.0	0.5	0.3	91.9	0.1	0.0	0.2	90.0	93.5
Finland	1084	3.8	90.7	4.2	0.7	0.5	90.7	0.0	0.0	0.5	92.1	89.2
Hong Kong, SAR	1933	2.5	93.4	3.5	0.3	0.2	93.4	0.0	0.0	0.2	93.8	93.1
Hungary	1189	3.2	92.9	2.8	0.4	0.8	92.9	0.0	0.4	0.3	91.1	94.6
Indonesia	2185	29.4	54.0	11.1	4.8	0.7	54.0	0.0	0.3	0.4	51.5	56.4
Iran, Islamic Rep.	1988	25.6	58.4	12.5	2.3	1.3	58.4	0.0	0.1	1.2	47.4	65.7
Israel	1575	5.9	83.2	5.2	3.8	1.9	83.2	0.1	0.9	0.9	81.2	85.2
Italy	1235	11.7	76.9	6.1	4.7	0.6	76.9	0.0	0.2	0.4	75.5	78.3
Japan	1793	2.4	95.4	1.6	0.4	0.1	95.4	0.0	0.1	0.1	95.1	95.7
Jordan	1890	15.4	66.2	10.4	7.0	1.1	66.2	0.2	0.1	0.8	62.6	69.4
Korea, Rep. of	2292	3.9	92.5	2.5	1.1	0.0	92.5	0.0	0.0	0.0	92.0	93.0
Latvia (LSS)	1081	6.8	86.9	4.8	1.1	0.5	86.9	0.1	0.0	0.4	85.4	88.4
Lithuania	896	8.6	83.5	5.4	2.0	0.5	83.5	0.0	0.0	0.5	81.3	85.8
Macedonia, Rep. of	1512	10.2	78.6	6.1	2.2	2.9	78.6	0.0	0.5	2.4	77.4	79.8
Malaysia	2084	6.4	87.8	4.1	1.6	0.1	87.8	0.0	0.0	0.1	88.0	87.5
Moldova	1396	16.6	65.6	11.7	4.2	1.9	65.6	0.2	0.8	1.0	63.5	68.0
Morocco	2041	28.3	42.9	12.7	9.2	6.8	42.9	1.4	2.0	3.4	39.3	45.5
Netherlands	1107	1.5	94.8	2.7	0.3	0.7	94.8	0.0	0.0	0.7	94.3	95.4
New Zealand	1357	5.6	88.1	4.2	1.4	0.7	88.1	0.1	0.2	0.4	87.0	89.2
Philippines	2452	20.7	53.3	14.8	9.8	1.3	53.3	0.0	0.3	1.0	52.4	54.3
Romania	1274	14.7	72.8	7.1	3.9	1.5	72.8	0.4	0.3	0.8	69.6	76.2
Russian Federation	1635	6.4	83.3	7.2	2.2	0.9	83.3	0.1	0.5	0.3	81.5	85.2
Singapore	1849	1.5	96.8	1.7	0.1	0.0	96.8	0.0	0.0	0.0	96.7	96.8
Slovak Republic	1318	4.4	90.3	4.1	0.8	0.3	90.3	0.0	0.0	0.3	89.6	91.0
Slovenia	1172	4.1	92.0	2.5	0.9	0.5	92.0	0.0	0.1	0.4	91.3	92.7
South Africa	3069	22.0	37.0	17.9	18.5	4.5	37.0	0.9	2.0	1.6	34.7	39.7
Thailand	2162	14.6	76.7	6.6	2.1	0.0	76.7	0.0	0.0	0.0	77.2	76.1
Tunisia	1901	21.4	67.0	6.8	1.8	2.9	67.0	1.3	0.9	0.7	61.1	73.7
Turkey	2936	10.3	73.6	8.1	7.3	0.7	73.6	0.0	0.0	0.7	69.5	76.6
United States	3356	3.1	92.9	2.9	0.9	0.2	92.9	0.0	0.1	0.1	93.6	92.2
International Avg.	.	9.5	80.4	6.1	2.9	1.1	80.4	0.1	0.3	0.6	78.8	81.9

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Algebra  
 Label: Equation from x/y table ( M012046 - H10 )  
 Item Type = MC Key = D

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	1509	14.6	7.1	8.4	68.5	1.4	68.5	0.0	0.1	1.3	69.4	67.4
Belgium (Flemish)	1986	14.4	7.9	14.5	59.6	3.6	59.6	0.2	0.0	3.4	61.1	58.0
Bulgaria	1223	31.2	6.9	5.9	46.8	9.2	46.8	1.9	0.5	6.8	48.4	45.0
Canada	3272	22.2	9.2	12.3	55.3	1.1	55.3	0.1	0.0	1.0	55.8	55.0
Chile	2214	25.1	19.0	19.3	21.4	15.2	21.4	0.0	2.1	13.1	20.0	22.8
Chinese Taipei	2167	14.4	7.0	6.3	72.2	0.2	72.2	0.1	0.0	0.1	74.7	69.7
Cyprus	1151	27.2	16.8	15.6	35.6	4.8	35.6	0.3	0.0	4.5	35.9	35.3
Czech Republic	1287	26.0	10.9	5.7	53.1	4.3	53.1	0.3	0.5	3.6	54.1	52.0
England	1090	17.8	10.5	12.3	56.9	2.6	56.9	0.2	0.0	2.4	55.7	57.9
Finland	1084	25.9	16.4	14.2	39.5	4.0	39.5	0.0	0.0	4.0	38.7	40.3
Hong Kong, SAR	1933	19.4	5.4	6.2	68.3	0.7	68.3	0.0	0.0	0.7	70.1	66.6
Hungary	1189	8.1	3.0	5.1	80.0	3.7	80.0	0.3	0.4	3.0	84.1	76.3
Indonesia	2185	30.0	11.7	18.0	37.5	2.9	37.5	0.0	0.4	2.5	39.0	36.0
Iran, Islamic Rep.	1988	25.0	18.3	18.7	31.5	6.6	31.5	0.0	0.1	6.5	29.1	33.1
Israel	1576	27.0	12.3	11.0	41.2	8.5	41.2	0.7	0.9	7.0	37.9	44.3
Italy	1235	17.5	13.7	18.3	40.1	10.3	40.1	0.0	0.2	10.1	39.4	40.8
Japan	1793	11.5	3.3	8.3	76.4	0.4	76.4	0.0	0.1	0.3	75.6	77.1
Jordan	1890	18.8	12.6	15.9	50.2	2.5	50.2	0.2	0.1	2.2	52.0	48.6
Korea, Rep. of	2292	6.0	1.6	7.9	84.4	0.0	84.4	0.0	0.0	0.0	85.8	83.1
Latvia (LSS)	1081	30.3	10.0	4.6	49.6	5.5	49.6	0.5	0.1	4.9	48.9	50.4
Lithuania	896	39.0	7.9	6.4	36.4	10.4	36.4	0.0	0.0	10.4	36.9	35.9
Macedonia, Rep. of	1512	21.0	9.4	7.7	51.4	10.6	51.4	0.4	0.7	9.5	55.7	47.3
Malaysia	2084	16.9	10.9	18.7	51.1	2.4	51.1	0.0	0.1	2.3	51.7	50.5
Moldova	1396	40.0	13.3	9.4	31.2	6.1	31.2	1.6	0.9	3.6	29.9	32.7
Morocco	2038	25.7	20.6	21.5	20.2	12.0	20.2	1.2	2.3	8.5	19.0	21.0
Netherlands	1107	9.2	5.5	13.0	70.6	1.7	70.6	0.0	0.0	1.7	72.4	68.6
New Zealand	1357	18.8	14.1	13.5	51.6	1.9	51.6	0.0	0.2	1.8	55.0	48.5
Philippines	2452	28.1	14.0	33.5	22.4	1.9	22.4	0.0	0.5	1.4	24.1	20.6
Romania	1275	31.5	13.1	11.5	36.2	7.8	36.2	2.8	0.3	4.8	36.0	36.4
Russian Federation	1635	18.6	4.8	5.4	64.9	6.4	64.9	0.7	0.6	5.1	68.8	60.6
Singapore	1849	15.1	5.3	7.7	70.9	1.1	70.9	0.1	0.0	1.0	71.2	70.6
Slovak Republic	1318	27.2	7.1	6.2	56.5	3.0	56.5	0.0	0.0	3.0	60.0	53.2
Slovenia	1172	20.3	7.8	6.9	60.2	4.8	60.2	0.5	0.1	4.2	59.6	60.8
South Africa	3069	32.5	22.6	20.1	19.3	5.4	19.3	0.9	2.1	2.4	21.2	17.2
Thailand	2162	38.8	12.6	14.7	33.3	0.6	33.3	0.0	0.0	0.6	33.2	33.4
Tunisia	1901	17.6	10.7	18.8	41.2	11.8	41.2	3.4	1.1	7.3	41.1	41.3
Turkey	2936	27.1	12.9	21.6	32.3	6.0	32.3	0.0	0.0	6.0	33.8	31.3
United States	3356	19.9	10.3	11.3	57.4	1.1	57.4	0.0	0.1	1.0	57.0	57.8
International Avg.	.	22.6	10.7	12.5	49.3	4.8	49.3	0.4	0.4	4.0	50.1	48.6

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Data Representation, Analysis and Probability  
 Label: Defective bulbs from random sample ( M012047 - H11 )  
 Item Type = MC Key = C

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	1509	4.5	9.0	63.9	11.1	10.6	0.9	63.9	0.1	0.1	0.7	62.2	65.8
Belgium (Flemish)	1986	4.4	4.6	78.8	6.0	5.5	0.7	78.8	0.0	0.0	0.7	76.0	81.6
Bulgaria	1223	8.2	6.2	64.7	7.3	10.9	2.7	64.7	0.0	0.7	2.0	61.8	67.8
Canada	3272	4.6	7.3	66.7	10.8	10.2	0.5	66.7	0.0	0.1	0.4	64.0	69.3
Chile	2214	11.0	10.4	45.8	10.2	15.0	7.5	45.8	0.0	2.9	4.6	42.1	49.4
Chinese Taipei	2167	2.3	3.5	83.4	4.5	6.3	0.1	83.4	0.0	0.0	0.1	81.8	85.0
Cyprus	1158	8.2	7.6	64.2	8.5	10.0	1.6	64.2	0.0	0.1	1.5	64.3	64.1
Czech Republic	1287	3.6	7.0	75.3	6.1	6.7	1.3	75.3	0.0	0.5	0.8	71.1	79.7
England	1090	6.5	8.4	59.4	15.2	10.3	0.3	59.4	0.0	0.0	0.3	52.7	65.3
Finland	1084	4.4	8.3	67.6	11.3	7.6	0.8	67.6	0.0	0.0	0.8	61.0	74.9
Hong Kong, SAR	1933	1.4	3.8	84.6	4.0	5.8	0.3	84.6	0.0	0.1	0.3	83.7	85.4
Hungary	1189	4.2	5.7	75.5	4.2	8.3	2.1	75.5	0.0	0.5	1.6	73.2	77.6
Indonesia	2185	13.1	10.6	49.4	10.6	14.1	2.3	49.4	0.0	0.5	1.8	47.3	51.5
Iran, Islamic Rep.	1988	19.6	10.1	46.8	10.7	10.1	2.7	46.8	0.0	0.3	2.4	41.5	50.4
Israel	1576	10.5	11.3	52.4	9.8	11.2	4.8	52.4	0.1	0.9	3.8	47.9	56.8
Italy	1235	9.6	12.0	56.4	8.6	10.8	2.7	56.4	0.0	0.3	2.4	50.6	62.3
Japan	1793	3.6	7.3	73.0	9.7	5.9	0.4	73.0	0.0	0.1	0.3	70.9	75.0
Jordan	1889	24.8	8.4	43.9	9.8	10.8	2.2	43.9	0.1	0.1	2.1	40.1	47.4
Korea, Rep. of	2292	4.0	4.5	82.9	4.0	4.5	0.1	82.9	0.0	0.0	0.1	80.1	85.7
Latvia (LSS)	1081	4.9	8.4	69.5	7.0	9.2	1.0	69.5	0.1	0.2	0.7	65.9	73.6
Lithuania	896	8.8	9.5	56.0	6.8	14.9	4.0	56.0	0.0	0.2	3.8	53.2	58.8
Macedonia, Rep. of	1512	11.1	9.5	53.5	6.7	11.0	8.2	53.5	0.0	1.1	7.2	52.4	54.6
Malaysia	2084	4.8	5.8	70.5	6.6	11.3	1.0	70.5	0.0	0.1	0.9	69.2	72.1
Moldova	1396	8.8	10.6	52.8	9.0	15.2	3.6	52.8	0.1	1.3	2.2	51.3	54.6
Morocco	2041	15.9	19.5	32.1	11.2	12.2	9.1	32.1	1.7	2.8	4.5	29.8	33.7
Netherlands	1107	2.2	3.6	85.5	3.6	4.7	0.3	85.5	0.0	0.0	0.3	83.7	87.4
New Zealand	1358	6.1	11.5	56.4	15.4	9.9	0.7	56.4	0.1	0.2	0.4	54.3	58.3
Philippines	2452	10.0	10.2	36.3	22.3	19.5	1.7	36.3	0.0	0.6	1.1	37.0	35.5
Romania	1275	7.6	11.6	56.4	8.2	13.3	2.9	56.4	0.2	0.4	2.3	52.6	60.4
Russian Federation	1635	5.6	7.4	65.2	6.4	12.4	3.1	65.2	0.2	1.2	1.7	61.2	69.5
Singapore	1849	2.2	3.9	83.3	3.6	6.5	0.5	83.3	0.0	0.0	0.5	81.1	85.5
Slovak Republic	1317	5.6	7.4	70.4	5.9	9.6	1.1	70.4	0.0	0.2	0.9	65.5	75.1
Slovenia	1172	4.5	7.1	71.4	6.7	9.2	1.0	71.4	0.1	0.1	0.9	67.3	75.9
South Africa	3069	10.8	10.2	29.7	19.5	25.3	4.5	29.7	0.2	2.2	2.1	29.0	30.5
Thailand	2162	4.3	5.5	63.5	7.7	18.6	0.3	63.5	0.1	0.0	0.2	61.9	65.5
Tunisia	1901	10.0	9.0	59.0	8.9	9.3	3.9	59.0	0.3	1.5	2.2	52.5	66.2
Turkey	2936	9.6	10.4	54.5	10.2	13.8	1.5	54.5	0.0	0.1	1.4	52.2	56.1
United States	3356	4.7	9.4	58.2	12.7	14.6	0.4	58.2	0.0	0.1	0.3	54.5	62.1
International Avg.	.	7.5	8.3	62.1	9.0	10.9	2.2	62.1	0.1	0.5	1.6	59.1	65.0

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent



Mathematics: Algebra  
 Label: Symbolic linear equation of magazines ( M012048 - H12 )  
 Item Type = MC Key = B

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	1509	4.0	83.0	5.3	6.4	1.2	83.0	0.1	0.1	0.9	85.5	80.3
Belgium (Flemish)	1986	3.2	88.5	3.4	4.4	0.6	88.5	0.0	0.0	0.5	90.6	86.3
Bulgaria	1223	7.1	73.3	4.7	5.8	9.1	73.3	1.2	0.7	7.3	72.5	74.1
Canada	3272	3.5	86.4	3.0	6.3	0.7	86.4	0.0	0.1	0.7	87.7	85.3
Chile	2214	10.3	53.7	10.4	12.1	13.5	53.7	0.0	3.5	10.0	54.4	53.0
Chinese Taipei	2167	1.9	86.9	2.7	8.5	0.0	86.9	0.0	0.0	0.0	87.3	86.5
Cyprus	1156	9.5	75.3	6.8	6.7	1.6	75.3	0.2	0.1	1.3	80.2	70.5
Czech Republic	1287	6.5	80.3	4.3	6.7	2.2	80.3	0.3	0.5	1.4	80.4	80.2
England	1090	4.3	79.1	5.3	10.0	1.3	79.1	0.1	0.0	1.2	76.7	81.2
Finland	1084	4.1	82.0	6.2	5.8	1.9	82.0	0.0	0.0	1.9	85.3	78.3
Hong Kong, SAR	1933	4.6	63.9	5.0	25.2	1.2	63.9	0.2	0.1	0.8	62.9	64.9
Hungary	1189	3.5	81.5	4.9	6.7	3.4	81.5	0.4	0.7	2.4	84.5	78.9
Indonesia	2185	10.5	54.1	14.8	19.0	1.5	54.1	0.0	0.5	1.1	54.5	53.8
Iran, Islamic Rep.	1988	11.3	50.7	16.6	17.3	4.1	50.7	0.0	0.4	3.6	48.6	52.1
Israel	1576	5.9	76.6	6.0	6.1	5.4	76.6	0.2	1.0	4.2	80.1	73.2
Italy	1235	6.8	72.2	5.2	8.8	7.0	72.2	0.1	0.4	6.6	73.8	70.5
Japan	1793	1.6	85.2	2.1	10.9	0.2	85.2	0.0	0.2	0.0	86.2	84.3
Jordan	1889	8.0	63.9	13.4	12.2	2.5	63.9	0.2	0.2	2.2	63.4	64.3
Korea, Rep. of	2292	3.7	80.7	3.4	12.1	0.2	80.7	0.1	0.0	0.1	81.9	79.5
Latvia (LSS)	1081	7.4	77.0	6.9	6.0	2.7	77.0	0.2	0.2	2.3	79.0	74.9
Lithuania	896	11.3	65.8	8.6	8.0	6.3	65.8	0.2	0.4	5.6	66.0	65.6
Macedonia, Rep. of	1512	9.4	47.1	11.6	8.2	23.6	47.1	0.0	1.8	21.8	49.1	45.2
Malaysia	2084	2.7	85.9	4.3	6.7	0.3	85.9	0.0	0.1	0.2	88.6	82.6
Moldova	1396	13.7	62.7	8.2	11.1	4.3	62.7	0.7	1.6	2.1	64.3	60.8
Morocco	2039	19.9	43.6	13.6	15.0	7.9	43.6	1.5	3.1	3.3	40.1	46.0
Netherlands	1107	3.2	86.7	4.4	5.4	0.3	86.7	0.0	0.0	0.3	85.5	87.8
New Zealand	1358	4.9	77.2	6.8	9.9	1.2	77.2	0.1	0.2	0.9	81.2	73.4
Philippines	2452	12.6	45.0	21.2	19.4	1.8	45.0	0.2	0.7	0.9	47.8	41.8
Romania	1273	7.6	70.7	5.2	8.6	7.9	70.7	1.0	0.4	6.6	70.5	70.9
Russian Federation	1635	6.0	76.9	4.8	8.4	3.9	76.9	0.1	1.2	2.6	78.8	74.8
Singapore	1849	1.0	95.5	1.1	2.3	0.1	95.5	0.0	0.0	0.1	95.4	95.6
Slovak Republic	1318	5.4	78.8	4.7	6.7	4.3	78.8	0.0	0.5	3.8	81.5	76.3
Slovenia	1172	4.5	81.0	3.8	7.8	2.9	81.0	0.1	0.1	2.7	82.3	79.5
South Africa	3069	15.5	36.0	18.9	24.3	5.4	36.0	0.4	2.4	2.5	36.7	35.1
Thailand	2162	9.3	62.9	14.2	13.0	0.6	62.9	0.0	0.1	0.5	65.6	59.6
Tunisia	1901	4.2	74.5	6.3	8.0	7.0	74.5	2.3	1.7	3.0	73.1	76.1
Turkey	2936	14.6	50.5	17.0	15.1	2.7	50.5	0.0	0.3	2.4	51.1	50.1
United States	3356	3.9	86.3	4.2	5.3	0.3	86.3	0.0	0.1	0.2	87.7	84.9
International Avg.	.	7.0	71.6	7.6	10.0	3.7	71.6	0.3	0.6	2.8	72.7	70.5

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Algebra  
 Label: Three consecutive even numbers ( M022002 - I01 )  
 Item Type = MC Key = A

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	496	19.9	17.0	32.9	26.2	4.0	19.9	0.0	0.0	3.9	19.4	20.5
Belgium (Flemish)	647	33.7	12.7	33.0	18.9	1.7	33.7	0.0	0.0	1.7	37.9	29.6
Bulgaria	412	44.0	14.9	21.2	12.0	8.0	44.0	0.2	0.7	7.1	43.7	43.8
Canada	1092	27.5	16.6	33.4	22.2	0.3	27.5	0.0	0.0	0.3	32.3	22.9
Chile	734	9.7	14.9	43.0	27.9	4.6	9.7	0.5	0.3	3.8	10.2	9.3
Chinese Taipei	726	54.3	11.2	9.9	24.1	0.5	54.3	0.0	0.0	0.5	53.0	55.8
Cyprus	391	14.9	19.1	33.0	31.2	1.7	14.9	0.0	0.0	1.7	15.5	14.3
Czech Republic	420	26.0	14.7	28.9	25.3	5.0	26.0	0.0	0.0	5.0	25.5	26.7
England	365	16.9	13.5	47.9	17.3	4.4	16.9	0.0	0.0	4.4	16.7	17.3
Finland	362	13.6	17.2	43.1	22.0	4.1	13.6	0.0	0.0	4.1	15.0	12.3
Hong Kong, SAR	647	55.9	10.6	11.9	20.2	1.3	55.9	0.0	0.4	1.0	56.1	55.8
Hungary	405	37.5	12.5	28.0	17.4	4.6	37.5	0.3	0.0	4.3	38.1	36.3
Indonesia	738	16.7	13.8	31.8	35.1	2.6	16.7	0.0	0.0	2.6	16.8	16.5
Iran, Islamic Rep.	656	12.4	14.7	24.3	39.8	8.8	12.4	0.0	0.0	8.8	12.4	12.4
Israel	532	25.6	17.0	36.0	16.7	4.7	25.6	0.4	0.6	3.7	23.0	28.3
Italy	428	18.4	30.1	29.4	13.9	8.1	18.4	0.0	0.3	7.8	19.4	17.4
Japan	584	41.2	15.9	22.4	20.0	0.6	41.2	0.0	0.2	0.5	39.9	42.5
Jordan	618	19.5	24.6	31.5	20.0	4.4	19.5	0.5	0.0	3.9	22.1	17.1
Korea, Rep. of	766	41.4	15.2	20.7	22.7	0.0	41.4	0.0	0.0	0.0	41.3	41.5
Latvia (LSS)	363	18.4	16.1	32.8	24.5	8.2	18.4	0.8	0.2	7.2	23.1	13.8
Lithuania	297	16.2	14.8	23.5	42.0	3.6	16.2	0.0	0.0	3.6	16.6	15.8
Macedonia, Rep. of	497	26.3	10.8	21.7	37.4	3.8	26.3	0.0	0.0	3.8	26.7	26.0
Malaysia	696	14.1	16.6	34.5	32.5	2.3	14.1	0.0	0.0	2.3	15.9	12.2
Moldova	459	28.0	11.7	22.4	33.1	4.7	28.0	1.2	0.0	3.5	28.7	27.2
Morocco	641	13.6	21.8	26.8	29.4	8.4	13.6	0.0	0.4	8.0	11.5	15.3
Netherlands	378	23.3	11.8	34.3	28.8	1.8	23.3	0.0	0.0	1.8	24.3	22.2
New Zealand	452	15.6	17.5	37.5	26.9	2.5	15.6	0.2	0.2	2.1	17.5	14.0
Philippines	820	19.1	21.1	28.6	30.4	0.7	19.1	0.2	0.0	0.5	18.8	19.5
Romania	426	33.6	14.4	22.1	26.4	3.6	33.6	0.8	0.4	2.4	34.6	32.4
Russian Federation	547	32.2	14.2	16.0	28.2	9.5	32.2	0.3	0.4	8.8	27.6	37.5
Singapore	616	43.6	10.3	13.4	31.5	1.2	43.6	0.0	0.0	1.2	45.1	42.2
Slovak Republic	437	27.5	12.3	33.5	21.2	5.4	27.5	0.0	0.0	5.4	25.3	30.0
Slovenia	376	21.7	20.3	25.9	27.4	4.8	21.7	0.0	0.0	4.8	21.1	22.3
South Africa	971	21.2	27.6	31.5	17.6	2.1	21.2	0.4	0.1	1.5	20.6	21.9
Thailand	717	12.6	13.7	29.2	43.4	1.1	12.6	0.0	0.0	1.1	13.1	12.1
Tunisia	625	9.5	20.7	42.7	22.2	4.9	9.5	0.4	0.0	4.5	8.2	10.6
Turkey	975	23.9	16.6	21.1	35.4	3.1	23.9	0.1	0.1	2.9	25.5	22.7
United States	1112	27.1	15.1	34.1	22.8	0.9	27.1	0.0	0.1	0.8	26.8	27.4
International Avg.	.	25.2	16.1	28.8	26.2	3.7	25.2	0.2	0.1	3.5	25.5	24.9

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Fractions and Number Sense  
 Label: 4/5 of books more than 2/3 ( M022004 - I02 )  
 Item Type = MC Key = C

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	496	21.6	9.5	53.8	10.6	2.5	2.1	53.8	0.0	0.0	2.1	53.3	54.2
Belgium (Flemish)	647	17.6	4.3	64.5	9.8	2.2	1.6	64.5	0.1	0.1	1.4	64.4	64.7
Bulgaria	412	20.3	5.2	56.2	6.7	4.0	7.6	56.2	0.0	0.7	6.9	54.3	58.7
Canada	788	31.0	10.3	46.6	8.1	3.4	0.6	46.6	0.0	0.0	0.6	41.7	51.2
Chile	734	29.4	11.3	36.8	13.3	4.1	5.1	36.8	0.0	0.3	4.8	37.0	36.6
Chinese Taipei	726	11.1	5.2	76.8	4.7	2.1	0.0	76.8	0.0	0.0	0.0	76.4	77.3
Cyprus	390	26.3	8.3	50.7	7.9	4.1	2.6	50.7	0.0	0.0	2.6	51.2	50.2
Czech Republic	420	24.2	14.1	49.4	8.0	0.4	4.0	49.4	0.2	0.0	3.8	43.7	56.0
England	365	20.2	9.6	54.7	9.7	2.9	3.0	54.7	0.0	1.8	1.2	49.5	60.0
Finland	362	23.3	13.2	58.2	3.2	0.4	1.7	58.2	0.0	0.0	1.7	58.4	58.0
Hong Kong, SAR	647	11.2	3.7	79.1	3.5	1.8	0.8	79.1	0.1	0.4	0.3	79.2	79.1
Hungary	405	19.1	6.5	62.0	5.4	1.6	5.3	62.0	0.0	0.0	5.3	57.2	66.3
Indonesia	738	24.4	9.1	35.9	18.1	9.7	2.8	35.9	0.0	0.0	2.8	34.5	37.5
Iran, Islamic Rep.	656	30.7	11.0	33.7	12.6	9.0	3.0	33.7	0.0	0.0	3.0	28.2	37.6
Israel	532	25.4	10.6	42.7	12.1	4.7	4.5	42.7	0.0	0.6	3.9	35.1	50.4
Italy	428	18.3	6.4	57.0	6.9	7.4	4.0	57.0	0.0	0.3	3.7	56.9	57.2
Japan	584	14.0	5.6	72.7	6.2	1.3	0.3	72.7	0.0	0.2	0.2	69.9	75.5
Jordan	618	24.1	10.3	39.5	11.8	11.2	3.1	39.5	0.7	0.0	2.4	37.7	41.1
Korea, Rep. of	766	15.8	5.9	72.9	4.0	1.1	0.3	72.9	0.0	0.0	0.3	70.9	74.8
Latvia (LSS)	363	26.4	10.8	50.9	5.6	1.5	4.7	50.9	0.8	0.2	3.7	51.7	50.2
Lithuania	297	30.1	11.1	39.3	7.3	2.3	9.9	39.3	0.0	0.0	9.9	38.4	40.2
Macedonia, Rep. of	497	22.0	11.9	41.1	10.4	6.9	7.8	41.1	0.0	0.0	7.8	40.8	41.4
Malaysia	696	7.3	2.3	76.5	8.8	4.6	0.5	76.5	0.0	0.0	0.5	78.8	73.9
Moldova	459	32.8	8.3	40.3	10.4	3.9	4.3	40.3	0.0	0.0	4.3	43.6	36.5
Morocco	643	30.7	14.3	22.2	16.2	7.8	8.7	22.2	0.6	0.6	7.5	20.5	23.5
Netherlands	378	19.0	8.9	62.1	7.3	2.1	0.5	62.1	0.0	0.0	0.5	56.3	69.0
New Zealand	452	17.9	11.9	54.2	10.7	2.5	2.9	54.2	0.2	0.2	2.4	55.2	53.2
Philippines	820	26.3	11.1	31.3	18.9	11.7	0.8	31.3	0.1	0.0	0.7	29.9	32.9
Romania	426	20.3	11.6	46.8	11.1	4.8	5.5	46.8	0.2	0.4	4.8	45.9	47.6
Russian Federation	547	32.5	8.5	43.9	3.9	2.9	8.4	43.9	0.1	0.4	7.9	38.2	50.5
Singapore	616	8.3	1.9	84.2	3.9	1.8	0.0	84.2	0.0	0.0	0.0	84.3	84.0
Slovak Republic	437	19.7	9.0	51.8	9.3	2.5	7.8	51.8	0.6	0.0	7.2	53.9	49.4
Slovenia	376	23.0	9.0	54.2	5.0	2.3	6.5	54.2	0.3	0.0	6.3	50.7	58.3
South Africa	971	20.4	11.0	22.8	19.1	24.4	2.3	22.8	0.4	0.1	1.8	22.2	23.5
Thailand	717	21.5	7.6	47.4	15.7	6.8	0.9	47.4	0.0	0.0	0.9	48.0	46.7
Tunisia	626	44.4	8.5	31.8	9.7	2.7	2.8	31.8	0.7	0.0	2.1	26.8	36.3
Turkey	975	21.0	7.8	43.1	17.7	8.0	2.3	43.1	0.1	0.1	2.1	45.6	41.4
United States	1112	25.2	10.1	49.1	10.5	4.6	0.5	49.1	0.0	0.1	0.4	48.3	49.9
International Avg.	.	22.5	8.8	50.9	9.6	4.7	3.4	50.9	0.1	0.2	3.1	49.4	52.5

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Measurement  
 Label: 250 ml bottles filled by 400 liters ( M022005 - I03 )  
 Item Type = MC Key = C

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	496	16.2	19.1	47.1	16.2	1.4	47.1	0.0	0.0	1.4	41.0	53.5
Belgium (Flemish)	647	12.7	14.6	59.7	12.6	0.4	59.7	0.0	0.1	0.3	59.4	60.0
Bulgaria	412	18.0	20.1	43.5	7.1	11.3	43.5	0.2	0.7	10.4	38.6	48.8
Canada	1092	16.5	28.8	41.9	12.0	0.8	41.9	0.0	0.0	0.8	38.3	45.4
Chile	734	17.9	30.4	32.2	13.4	6.1	32.2	0.0	0.3	5.8	27.9	36.9
Chinese Taipei	726	21.1	26.1	43.1	9.3	0.4	43.1	0.0	0.0	0.4	41.4	44.8
Cyprus	389	23.8	28.8	36.4	8.2	2.8	36.4	0.0	0.0	2.8	33.6	39.3
Czech Republic	420	21.9	23.0	42.8	7.9	4.4	42.8	0.2	0.0	4.1	33.6	53.5
England	365	21.2	29.7	34.4	10.7	4.0	34.4	0.0	1.8	2.1	29.9	38.8
Finland	362	9.5	21.9	47.3	20.9	0.4	47.3	0.0	0.0	0.4	38.8	55.2
Hong Kong, SAR	647	16.2	19.2	56.0	7.9	0.7	56.0	0.0	0.4	0.4	54.9	56.9
Hungary	405	11.9	23.8	50.7	10.6	2.9	50.7	0.0	0.0	2.9	45.1	55.9
Indonesia	738	15.4	28.0	31.7	21.4	3.6	31.7	0.0	0.0	3.6	32.1	31.2
Iran, Islamic Rep.	656	18.6	28.9	32.3	14.2	6.0	32.3	0.0	0.0	6.0	31.2	33.1
Israel	532	21.8	24.8	36.8	10.8	5.7	36.8	0.2	0.6	4.9	32.4	41.6
Italy	428	16.7	30.3	39.4	8.9	4.7	39.4	0.3	0.3	4.2	32.8	46.5
Japan	584	18.0	27.9	46.7	7.0	0.3	46.7	0.0	0.2	0.2	39.4	54.3
Jordan	625	17.1	33.7	33.4	10.5	5.3	33.4	0.7	0.0	4.6	38.0	29.3
Korea, Rep. of	766	27.4	32.2	35.6	4.6	0.2	35.6	0.0	0.0	0.2	29.8	41.2
Latvia (LSS)	363	22.2	24.5	38.6	12.0	2.7	38.6	0.5	0.2	2.0	28.1	48.9
Lithuania	297	17.2	23.8	41.7	8.6	8.6	41.7	0.7	0.0	7.9	38.0	45.3
Macedonia, Rep. of	497	17.5	27.9	31.7	12.9	9.9	31.7	0.0	0.0	9.9	30.0	33.3
Malaysia	696	20.1	16.1	52.0	10.4	1.4	52.0	0.0	0.0	1.4	48.8	55.5
Moldova	459	20.6	24.6	35.7	13.0	6.0	35.7	0.8	0.3	4.9	31.1	41.1
Morocco	642	16.3	38.4	24.7	10.6	10.1	24.7	0.4	0.6	9.1	22.9	25.8
Netherlands	378	11.2	19.3	49.2	19.3	1.0	49.2	0.0	0.0	1.0	45.3	53.6
New Zealand	452	15.6	26.9	41.7	13.7	2.2	41.7	0.2	0.2	1.8	37.2	45.8
Philippines	820	11.6	32.8	33.3	21.3	1.0	33.3	0.0	0.0	1.0	30.1	37.1
Romania	426	16.4	20.3	41.2	15.7	6.4	41.2	0.5	0.4	5.5	38.5	44.1
Russian Federation	547	18.2	23.4	45.0	7.2	6.2	45.0	0.8	0.4	5.0	38.6	52.5
Singapore	616	15.7	13.3	63.3	6.9	0.8	63.3	0.0	0.0	0.8	59.5	67.0
Slovak Republic	437	16.6	20.4	49.1	8.5	5.4	49.1	0.0	0.0	5.4	44.4	54.3
Slovenia	376	11.1	23.2	43.9	14.1	7.7	43.9	0.4	0.0	7.3	41.5	46.8
South Africa	971	10.8	31.4	36.6	20.3	0.8	36.6	0.1	0.1	0.6	34.2	39.4
Thailand	717	26.8	31.6	29.8	11.4	0.4	29.8	0.0	0.0	0.4	28.7	31.1
Tunisia	630	22.2	29.8	35.5	8.6	3.9	35.5	0.0	0.0	3.9	31.1	39.4
Turkey	975	15.6	30.4	37.9	12.1	4.1	37.9	0.5	0.1	3.5	38.7	37.3
United States	1112	15.9	33.5	34.2	15.3	1.1	34.2	0.0	0.1	1.0	30.9	37.6
International Avg.	.	17.5	25.9	41.0	12.0	3.7	41.0	0.2	0.2	3.4	37.3	44.8

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Algebra  
 Label: Numbers in sequence increasing by 4 ( M022008 - I04 )  
 Item Type = SA Key = X

COUNTRY	N	10	70	71	77	79	99	V1	NOT	OMIT	1.GIRL	2.BOY
									REACH		% Right	% Right
Australia	496	42.3	8.1	5.8	0.0	34.1	9.7	42.3	0.0	9.7	44.9	39.5
Belgium (Flemish)	647	45.0	5.6	2.2	0.0	42.3	4.9	45.0	0.1	4.8	50.4	39.7
Bulgaria	412	37.1	0.4	0.6	0.0	37.5	24.4	37.1	0.7	23.8	39.3	34.2
Canada	1092	38.5	10.4	8.7	0.0	37.4	4.9	38.5	0.0	4.9	43.5	33.7
Chile	734	31.0	5.1	3.1	6.1	32.7	22.2	31.0	0.3	21.9	35.7	25.9
Chinese Taipei	726	45.0	0.3	2.7	0.0	43.7	8.2	45.0	0.0	8.2	49.7	40.3
Cyprus	391	30.5	4.5	7.4	0.0	40.2	17.4	30.5	0.0	17.4	31.3	29.6
Czech Republic	420	41.9	3.3	5.9	0.0	36.7	12.2	41.9	0.0	12.2	45.9	37.3
England	365	34.6	14.1	8.2	0.0	33.9	9.1	34.6	1.8	7.3	37.4	31.9
Finland	362	41.8	2.8	6.5	0.0	43.1	5.8	41.8	0.0	5.8	50.5	33.7
Hong Kong, SAR	647	40.3	0.7	2.1	0.0	43.9	12.9	40.3	0.4	12.5	42.1	38.8
Hungary	405	44.8	0.9	5.3	0.0	37.3	11.8	44.8	0.0	11.8	50.3	39.3
Indonesia	738	23.5	2.5	5.5	0.0	58.0	10.4	23.5	0.0	10.4	25.2	21.5
Iran, Islamic Rep.	656	25.0	0.6	3.7	0.0	51.6	19.2	25.0	0.0	19.2	29.1	22.0
Israel	532	23.6	4.4	5.4	0.0	40.8	25.7	23.6	0.6	25.1	25.7	21.7
Italy	428	41.4	0.8	3.2	0.0	32.9	21.6	41.4	0.3	21.3	46.0	36.5
Japan	584	47.5	0.5	6.4	0.0	38.3	7.3	47.5	0.2	7.1	49.4	45.6
Jordan	625	22.9	4.0	3.8	0.0	54.3	15.0	22.9	0.0	15.0	25.0	21.0
Korea, Rep. of	766	47.0	0.5	4.1	0.0	42.5	6.0	47.0	0.0	6.0	51.0	43.1
Latvia (LSS)	363	37.8	2.9	10.2	0.0	34.7	14.4	37.8	0.2	14.2	45.1	30.7
Lithuania	297	26.6	5.2	4.4	0.0	43.5	20.3	26.6	0.0	20.3	30.6	22.8
Macedonia, Rep. of	497	25.0	4.4	7.2	0.0	31.1	32.4	25.0	0.0	32.4	23.4	26.4
Malaysia	696	39.1	11.1	4.4	0.0	35.0	10.5	39.1	0.0	10.5	39.6	38.5
Moldova	459	28.1	3.2	3.0	0.0	40.3	25.4	28.1	0.7	24.7	32.3	23.3
Morocco	647	14.0	0.3	1.0	0.0	56.2	28.4	14.0	1.0	27.5	11.6	15.9
Netherlands	378	33.3	7.1	7.9	0.0	44.6	7.1	33.3	0.0	7.1	34.7	31.7
New Zealand	452	32.0	15.5	7.1	0.0	35.7	9.7	32.0	0.2	9.5	38.1	26.4
Philippines	820	15.2	8.9	4.1	0.0	53.4	18.4	15.2	0.0	18.4	17.8	12.3
Romania	426	23.0	5.0	4.0	0.0	44.2	23.8	23.0	0.4	23.3	24.7	21.3
Russian Federation	547	37.2	4.2	5.5	0.0	29.8	23.3	37.2	0.6	22.7	40.1	33.9
Singapore	616	49.4	5.8	4.6	0.0	34.1	6.2	49.4	0.0	6.2	54.2	44.8
Slovak Republic	437	45.0	1.3	6.2	0.0	32.0	15.5	45.0	0.0	15.5	47.2	42.6
Slovenia	376	34.1	6.0	4.4	0.0	43.9	11.6	34.1	0.0	11.6	40.1	27.0
South Africa	971	4.9	5.4	5.3	0.0	73.4	11.0	4.9	0.1	10.9	5.4	4.4
Thailand	717	20.2	29.5	6.3	0.0	37.7	6.4	20.2	0.0	6.4	23.5	16.4
Tunisia	629	39.3	0.2	6.1	0.0	40.3	14.1	39.3	0.0	14.1	41.9	37.0
Turkey	975	20.6	24.0	4.2	0.0	33.7	17.4	20.6	0.1	17.3	25.4	17.3
United States	1112	32.3	13.8	9.5	0.0	36.8	7.6	32.3	0.1	7.5	34.6	30.0
International Avg.	.	33.2	5.9	5.2	0.2	41.1	14.5	33.2	0.2	14.3	36.4	29.9

V1 = % Scoring 1 or better V2 = % Scoring 2 or better V3 = % Scoring 3 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Fractions and Number Sense  
 Label: Time for Betty to run race ( M022010 - I05 )  
 Item Type = MC Key = A

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	496	65.6	11.2	18.2	3.8	1.3	65.6	0.3	0.3	0.7	71.0	59.9
Belgium (Flemish)	647	75.6	8.5	14.9	0.6	0.5	75.6	0.0	0.2	0.3	78.2	73.0
Bulgaria	412	66.2	12.3	15.0	1.7	4.6	66.2	0.3	0.7	3.6	69.8	62.4
Canada	1092	76.3	7.5	14.8	1.2	0.3	76.3	0.0	0.0	0.3	82.5	70.2
Chile	734	48.9	17.2	26.9	4.4	2.6	48.9	0.0	0.4	2.2	53.8	43.6
Chinese Taipei	726	82.5	9.7	6.4	1.1	0.3	82.5	0.0	0.0	0.3	84.0	81.1
Cyprus	390	57.7	16.0	22.7	2.9	0.7	57.7	0.0	0.0	0.7	61.0	54.2
Czech Republic	420	69.0	7.2	20.7	2.1	1.1	69.0	0.0	0.0	1.1	77.6	59.1
England	365	52.4	12.9	29.6	3.3	1.8	52.4	0.0	1.8	0.0	53.3	51.0
Finland	362	66.0	13.5	17.1	3.2	0.2	66.0	0.0	0.0	0.2	69.7	62.5
Hong Kong, SAR	647	76.8	11.8	9.6	1.1	0.7	76.8	0.0	0.4	0.4	78.2	75.6
Hungary	405	76.5	8.5	12.7	1.6	0.7	76.5	0.0	0.0	0.7	78.7	74.2
Indonesia	738	49.8	13.5	29.8	5.2	1.7	49.8	0.0	0.0	1.7	48.6	51.2
Iran, Islamic Rep.	656	48.6	12.1	32.3	6.1	0.9	48.6	0.0	0.0	0.9	50.6	47.2
Israel	532	45.6	18.1	27.3	6.7	2.2	45.6	0.0	0.6	1.6	47.2	43.8
Italy	428	58.6	10.9	23.1	5.2	2.1	58.6	0.2	0.3	1.6	62.2	54.7
Japan	584	80.9	7.6	10.0	1.0	0.5	80.9	0.0	0.2	0.3	84.0	77.7
Jordan	625	47.9	14.2	27.7	7.9	2.2	47.9	0.6	0.0	1.7	51.9	44.3
Korea, Rep. of	766	89.6	5.0	4.6	0.9	0.0	89.6	0.0	0.0	0.0	92.8	86.4
Latvia (LSS)	363	69.5	7.3	20.6	1.2	1.4	69.5	0.3	0.2	0.9	78.1	61.1
Lithuania	297	71.5	8.6	16.7	1.8	1.3	71.5	0.0	0.0	1.3	80.9	62.3
Macedonia, Rep. of	497	47.7	18.6	21.4	5.5	6.8	47.7	0.2	0.0	6.6	51.1	44.7
Malaysia	696	86.2	8.8	3.9	0.5	0.7	86.2	0.0	0.0	0.7	88.2	84.0
Moldova	459	59.3	10.5	21.7	5.5	3.0	59.3	0.0	0.7	2.3	65.8	51.8
Morocco	643	41.5	18.5	29.5	5.9	4.6	41.5	0.0	1.2	3.4	41.5	41.5
Netherlands	378	67.6	10.9	20.3	0.6	0.6	67.6	0.0	0.0	0.6	66.6	68.7
New Zealand	452	51.6	12.6	30.5	3.6	1.7	51.6	0.0	0.2	1.5	53.3	50.0
Philippines	820	49.1	16.0	27.4	6.7	0.8	49.1	0.1	0.0	0.6	54.7	42.6
Romania	426	60.4	15.8	18.7	3.4	1.7	60.4	0.2	0.4	1.0	66.5	53.9
Russian Federation	547	78.3	9.6	8.5	1.1	2.6	78.3	0.0	0.9	1.7	83.4	72.2
Singapore	616	88.2	6.8	4.3	0.6	0.1	88.2	0.0	0.0	0.1	87.8	88.6
Slovak Republic	437	80.4	5.5	12.9	0.9	0.2	80.4	0.0	0.0	0.2	83.3	77.2
Slovenia	376	73.3	10.6	12.7	1.7	1.7	73.3	0.3	0.0	1.5	78.2	67.5
South Africa	971	27.8	21.4	26.6	22.4	1.8	27.8	0.3	0.6	1.0	29.1	26.3
Thailand	717	66.3	9.7	20.3	3.3	0.3	66.3	0.0	0.0	0.3	74.1	57.5
Tunisia	630	62.8	9.6	22.8	1.7	3.0	62.8	0.0	0.0	3.0	62.7	62.9
Turkey	975	54.3	16.4	22.3	5.5	1.6	54.3	0.0	0.1	1.5	59.7	50.5
United States	1112	70.1	10.8	15.7	2.8	0.5	70.1	0.0	0.1	0.5	77.6	62.6
International Avg.	.	64.2	11.7	19.0	3.5	1.5	64.2	0.1	0.2	1.2	67.8	60.5

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Fractions and Number Sense  
 Label: Fraction less than 4/9 ( M022012 - I06 )  
 Item Type = SA Key = X

COUNTRY	N	NOT REACHED										OMIT	1.GIRL % Right	2.BOY % Right	
		10	11	12	19	70	71	72	79	99	V1				
Australia	496	47.4	5.2	2.0	17.9	2.1	3.6	1.1	14.7	6.0	72.4	0.3	5.7	73.5	71.3
Belgium (Flemish)	647	41.7	8.0	1.1	15.4	9.7	3.7	2.8	16.3	1.4	66.1	0.2	1.2	65.9	66.3
Bulgaria	402	29.5	5.1	4.7	23.4	9.7	2.2	0.4	15.9	9.1	62.6	0.7	8.4	62.3	62.6
Canada	1092	47.9	3.0	2.0	20.7	1.9	6.3	2.0	13.6	2.7	73.5	0.0	2.7	70.0	77.0
Chile	734	12.8	4.5	12.6	15.1	1.0	7.3	0.5	35.7	10.5	45.0	0.7	9.8	44.1	46.0
Chinese Taipei	726	67.7	2.6	1.6	7.3	5.1	2.8	0.7	8.4	3.7	79.3	0.0	3.7	78.8	79.7
Cyprus	387	29.4	3.2	2.1	26.6	10.3	8.1	2.6	13.9	3.9	61.2	0.0	3.9	58.0	64.7
Czech Republic	420	41.1	4.6	2.6	9.6	6.5	9.9	0.5	20.8	4.5	57.9	0.0	4.5	60.1	55.5
England	365	44.1	5.9	3.8	14.2	2.6	2.2	0.4	21.3	5.6	67.9	1.8	3.7	63.9	72.0
Finland	362	47.8	5.9	1.2	17.6	7.8	2.3	0.2	13.0	4.2	72.5	0.0	4.2	72.2	72.9
Hong Kong, SAR	646	64.1	4.0	0.0	15.8	2.6	0.2	0.6	10.6	2.1	83.9	0.4	1.8	82.8	84.9
Hungary	405	40.1	8.9	1.3	22.1	4.2	1.2	0.8	18.7	2.7	72.4	0.0	2.7	66.4	77.8
Indonesia	738	13.4	3.9	0.8	7.4	2.2	16.3	3.7	43.4	8.8	25.6	0.0	8.8	25.6	25.6
Iran, Islamic Rep.	656	27.2	9.5	15.0	2.3	7.3	15.5	2.0	16.2	5.1	54.0	0.0	5.1	52.1	55.3
Israel	532	37.6	5.6	2.5	13.9	9.2	2.1	0.4	18.5	10.2	59.6	0.6	9.6	56.0	63.7
Italy	428	23.3	4.1	4.9	21.0	0.4	12.1	0.2	24.3	9.6	53.3	0.3	9.3	53.5	53.0
Japan	584	66.3	4.1	0.6	8.7	6.9	1.0	0.2	8.7	3.5	79.8	0.2	3.3	77.7	82.0
Jordan	612	48.9	2.2	6.7	8.6	4.4	2.9	0.7	19.6	6.0	66.4	0.0	6.0	73.8	59.9
Korea, Rep. of	766	69.2	3.9	2.6	7.8	8.2	2.1	0.1	4.7	1.4	83.5	0.0	1.4	81.6	85.5
Latvia (LSS)	363	29.5	5.1	0.7	13.1	12.4	14.0	0.2	20.4	4.6	48.4	0.2	4.4	46.6	50.2
Lithuania	297	23.5	7.6	8.3	13.0	6.9	15.8	0.3	21.3	3.4	52.4	0.0	3.4	52.1	52.8
Macedonia, Rep. of	497	17.9	6.3	4.3	8.8	9.5	5.6	2.5	36.4	8.7	37.3	0.0	8.7	38.9	35.7
Malaysia	696	39.3	2.1	2.6	8.4	6.3	12.4	2.4	17.9	8.6	52.4	0.0	8.6	53.4	51.3
Moldova	459	26.1	3.9	3.7	12.4	6.0	19.8	0.2	23.0	4.8	46.2	0.9	3.9	44.8	47.7
Morocco	646	7.7	6.1	8.6	11.9	1.1	3.7	0.4	42.9	17.5	34.4	1.2	16.3	31.1	37.0
Netherlands	378	37.0	4.3	0.9	27.8	8.7	2.4	3.8	14.6	0.5	70.0	0.0	0.5	69.0	71.2
New Zealand	452	36.3	4.4	2.8	18.1	2.8	2.8	0.8	24.5	7.5	61.7	0.2	7.3	64.8	58.9
Philippines	820	32.2	3.0	6.5	6.8	4.4	10.9	2.3	23.6	10.4	48.4	0.0	10.4	50.0	46.5
Romania	426	29.9	9.4	5.3	6.7	7.3	18.9	0.2	17.6	4.9	51.2	0.4	4.5	46.2	56.5
Russian Federation	547	41.9	5.1	3.1	11.6	6.8	11.0	0.0	16.6	4.0	61.6	0.9	3.2	59.2	64.3
Singapore	616	69.1	3.3	0.2	10.6	6.2	4.0	1.1	4.4	1.2	83.2	0.0	1.2	81.4	84.9
Slovak Republic	437	44.6	8.5	3.8	14.1	3.4	4.2	0.2	16.7	4.4	71.0	0.0	4.4	67.1	75.3
Slovenia	376	49.2	7.5	2.5	7.4	5.1	8.2	1.4	14.2	4.6	66.5	0.0	4.6	65.3	67.9
South Africa	971	13.8	3.4	3.8	9.6	2.7	11.6	0.7	46.7	7.7	30.5	0.6	7.1	28.2	33.1
Thailand	717	29.8	3.0	6.1	9.7	2.5	15.1	2.8	25.7	5.2	48.7	0.0	5.2	43.2	54.9
Tunisia	627	37.6	5.4	1.6	13.1	0.0	9.4	1.2	26.0	5.8	57.6	0.0	5.8	53.3	61.5
Turkey	975	22.4	5.3	12.6	7.6	4.8	7.4	2.2	31.1	6.5	48.0	0.1	6.4	47.5	48.3
United States	1112	43.9	3.1	2.4	18.6	5.0	6.2	0.8	17.8	2.2	68.0	0.1	2.1	66.6	69.3
International Avg.	.	37.7	5.0	3.9	13.3	5.4	7.5	1.1	20.5	5.6	59.8	0.3	5.4	58.6	61.1

V1 = % Scoring 1 or better V2 = % Scoring 2 or better V3 = % Scoring 3 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Measurement  
 Label: Area of paved walkway around pool ( M022021 - I07 )  
 Item Type = MC Key = C

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	496	7.4	21.6	52.2	15.9	3.0	52.2	0.0	0.3	2.7	53.3	51.1
Belgium (Flemish)	647	5.8	16.2	59.0	18.0	1.0	59.0	0.0	0.2	0.8	56.4	61.6
Bulgaria	412	9.4	21.9	45.8	16.4	6.5	45.8	0.0	0.7	5.9	42.9	49.1
Canada	1092	5.5	19.8	53.6	20.8	0.3	53.6	0.0	0.0	0.3	51.4	55.8
Chile	734	21.2	40.3	17.3	13.5	7.7	17.3	0.0	0.9	6.8	18.8	15.6
Chinese Taipei	726	7.3	9.0	76.0	7.2	0.5	76.0	0.0	0.0	0.5	74.6	77.5
Cyprus	390	6.8	18.0	49.7	23.8	1.8	49.7	0.0	0.0	1.8	49.1	50.3
Czech Republic	420	7.3	24.1	47.9	18.3	2.4	47.9	0.3	0.0	2.1	42.5	54.2
England	365	6.7	33.0	37.4	19.4	3.5	37.4	0.0	1.8	1.7	33.2	41.6
Finland	362	6.7	28.1	46.8	15.6	2.8	46.8	0.0	0.0	2.8	45.4	48.2
Hong Kong, SAR	647	3.7	6.1	80.5	8.9	0.8	80.5	0.1	0.4	0.3	80.5	80.4
Hungary	405	6.6	20.5	45.4	23.5	4.1	45.4	0.0	0.0	4.1	44.5	45.8
Indonesia	738	23.7	24.4	25.0	25.8	1.2	25.0	0.0	0.0	1.2	20.8	30.0
Iran, Islamic Rep.	656	18.1	24.3	25.2	30.4	2.0	25.2	0.0	0.0	2.0	18.9	29.6
Israel	104	23.2	38.4	15.0	17.0	6.5	15.0	0.0	0.0	6.5	15.2	15.1
Italy	428	8.5	14.8	40.5	32.8	3.4	40.5	0.0	0.3	3.1	35.2	46.2
Japan	584	2.5	9.0	80.4	7.4	0.7	80.4	0.0	0.2	0.5	81.8	79.0
Jordan	612	22.9	24.4	32.8	17.3	2.7	32.8	0.5	0.0	2.2	35.8	30.2
Korea, Rep. of	766	4.8	10.8	70.1	14.1	0.3	70.1	0.0	0.0	0.3	67.9	72.2
Latvia (LSS)	363	12.5	27.2	33.1	22.5	4.8	33.1	0.6	0.2	4.0	28.7	37.4
Lithuania	297	16.7	24.6	31.2	19.0	8.5	31.2	0.0	0.0	8.5	26.9	35.5
Macedonia, Rep. of	497	18.3	23.7	28.2	21.5	8.3	28.2	0.0	0.0	8.3	26.0	30.2
Malaysia	696	5.2	17.4	66.8	9.2	1.4	66.8	0.0	0.0	1.4	68.4	65.2
Moldova	459	17.1	26.1	30.8	22.8	3.3	30.8	0.0	0.9	2.4	30.2	31.4
Morocco	645	18.2	33.0	15.4	28.4	4.9	15.4	0.0	1.6	3.4	14.5	16.1
Netherlands	378	5.7	22.0	53.1	18.8	0.4	53.1	0.0	0.0	0.4	48.8	57.9
New Zealand	452	9.4	32.5	35.9	19.5	2.7	35.9	0.4	0.2	2.0	33.0	38.6
Philippines	820	28.0	36.1	15.4	19.1	1.3	15.4	0.3	0.0	1.0	13.0	18.2
Romania	426	17.1	26.2	27.9	22.8	6.0	27.9	0.3	0.4	5.3	26.5	29.5
Russian Federation	547	11.5	21.0	34.6	25.7	7.2	34.6	0.3	0.9	6.0	31.0	38.9
Singapore	616	3.3	3.9	83.7	8.7	0.4	83.7	0.0	0.0	0.4	83.2	84.3
Slovak Republic	437	8.9	18.4	57.9	10.8	4.1	57.9	0.0	0.0	4.0	56.2	59.7
Slovenia	376	7.9	18.2	48.6	21.6	3.6	48.6	0.0	0.0	3.6	45.0	53.0
South Africa	971	35.1	30.7	18.5	13.9	1.9	18.5	0.1	0.6	1.2	18.4	18.5
Thailand	717	18.8	28.1	34.2	18.2	0.6	34.2	0.0	0.0	0.6	32.4	36.3
Tunisia	630	9.5	24.6	27.7	33.9	4.3	27.7	0.2	0.0	4.1	23.8	31.2
Turkey	975	17.4	28.4	27.6	24.3	2.4	27.6	0.1	0.1	2.2	26.7	28.2
United States	1112	9.2	29.3	35.0	25.8	0.8	35.0	0.0	0.1	0.7	33.8	36.2
International Avg.	.	12.3	23.0	42.3	19.3	3.1	42.3	0.1	0.3	2.8	40.4	44.2

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent



Mathematics: Geometry  
 Label: Point on a line defined by two points ( M022016 - I08 )  
 Item Type = MC Key = D

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	496	9.5	11.6	16.6	49.4	8.9	4.0	49.4	0.7	0.3	3.0	52.4	46.2
Belgium (Flemish)	647	6.3	10.7	20.6	41.7	7.0	13.6	41.7	10.0	0.2	3.4	40.0	43.4
Bulgaria	412	4.3	17.2	29.5	29.0	5.7	14.4	29.0	2.7	0.7	11.0	31.3	26.0
Canada	1092	7.1	11.8	19.4	50.5	9.0	2.3	50.5	0.9	0.0	1.4	52.7	48.3
Chile	734	5.7	8.7	30.3	34.6	11.8	8.9	34.6	0.0	1.2	7.6	34.0	35.2
Chinese Taipei	726	4.3	17.3	14.9	55.8	6.8	1.0	55.8	0.2	0.0	0.7	54.9	56.6
Cyprus	389	3.3	9.9	39.8	32.3	9.6	5.1	32.3	1.7	0.0	3.4	32.1	32.6
Czech Republic	420	6.0	14.6	27.7	35.6	6.8	9.3	35.6	1.6	0.0	7.7	30.6	41.3
England	365	9.3	13.3	14.0	49.0	8.8	5.6	49.0	1.7	1.8	2.1	48.2	49.5
Finland	362	6.0	12.6	17.1	53.3	7.1	3.8	53.3	0.0	0.0	3.8	55.0	51.7
Hong Kong, SAR	647	8.0	10.9	20.4	53.2	5.7	1.7	53.2	0.0	0.4	1.3	52.9	53.5
Hungary	405	8.2	16.3	13.6	47.9	5.6	8.5	47.9	4.1	0.0	4.3	44.9	50.6
Indonesia	738	12.7	17.5	27.3	30.4	9.0	3.1	30.4	0.3	0.0	2.9	31.3	29.4
Iran, Islamic Rep.	657	10.2	13.9	45.8	15.8	10.1	4.2	15.8	0.0	0.0	4.2	8.9	20.9
Israel	532	7.2	10.7	28.4	32.1	14.5	7.1	32.1	1.0	0.9	5.1	28.9	35.6
Italy	428	7.7	11.8	31.1	34.8	8.4	6.2	34.8	0.0	0.3	5.9	32.2	37.5
Japan	584	5.0	13.8	21.9	51.3	6.6	1.5	51.3	0.4	0.2	1.0	47.0	55.7
Jordan	624	8.3	13.8	31.2	26.4	17.3	3.0	26.4	0.9	0.0	2.0	23.5	29.0
Korea, Rep. of	763	3.8	16.4	22.3	50.9	6.2	0.4	50.9	0.0	0.0	0.4	49.6	52.1
Latvia (LSS)	363	3.9	5.7	29.7	37.8	10.0	12.9	37.8	4.6	0.2	8.0	38.7	37.0
Lithuania	297	7.5	11.4	28.6	31.9	12.3	8.3	31.9	0.0	0.0	8.3	29.7	33.9
Macedonia, Rep. of	497	9.9	12.3	26.2	27.5	12.9	11.2	27.5	1.8	0.2	9.2	24.9	29.9
Malaysia	696	8.3	11.7	30.2	37.4	10.3	2.1	37.4	0.0	0.0	2.1	35.3	39.7
Moldova	459	2.3	14.6	32.8	23.5	13.0	13.7	23.5	5.2	0.9	7.6	25.5	21.2
Morocco	645	2.8	10.4	43.2	20.9	14.5	8.1	20.9	0.0	1.6	6.5	20.7	21.2
Netherlands	378	9.7	6.7	10.4	65.0	6.0	2.1	65.0	0.2	0.0	2.0	61.2	69.3
New Zealand	452	6.8	14.1	22.3	43.4	9.4	4.0	43.4	0.2	0.2	3.6	44.6	42.3
Philippines	820	8.4	14.3	34.7	23.8	17.5	1.3	23.8	0.1	0.0	1.2	23.9	23.6
Romania	426	7.5	15.9	24.8	25.7	10.9	15.1	25.7	7.4	0.4	7.3	28.1	23.2
Russian Federation	547	9.8	9.3	23.2	39.4	9.4	8.9	39.4	1.1	0.9	6.9	35.0	44.6
Singapore	616	5.9	11.0	11.9	61.7	9.0	0.4	61.7	0.0	0.0	0.4	58.1	65.0
Slovak Republic	437	4.4	9.0	30.0	36.7	11.8	8.0	36.7	2.0	0.0	6.0	34.9	38.8
Slovenia	376	7.2	15.4	20.1	40.6	9.5	7.3	40.6	2.1	0.0	5.2	42.5	38.3
South Africa	971	9.5	14.3	34.1	18.8	20.0	3.3	18.8	1.7	0.7	1.0	18.4	19.2
Thailand	717	7.4	13.8	38.0	28.5	11.5	0.8	28.5	0.0	0.1	0.7	30.8	25.9
Tunisia	629	1.9	5.5	31.3	9.4	8.8	43.1	9.4	40.3	0.0	2.8	7.7	10.9
Turkey	975	7.9	13.1	34.6	26.6	13.2	4.5	26.6	0.0	0.1	4.4	25.9	27.1
United States	1112	9.0	11.8	18.8	48.5	10.4	1.6	48.5	0.6	0.1	0.9	50.0	46.9
International Avg.	.	6.9	12.5	26.2	37.4	10.1	6.8	37.4	2.5	0.3	4.1	36.5	38.2

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Data Representation, Analysis and Probability  
 Label: Most likely sector on spinner ( M022252 - I09 )  
 Item Type = MC Key = B

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	496	10.6	72.5	12.0	3.8	1.0	72.5	0.0	0.3	0.8	73.1	71.9
Belgium (Flemish)	647	4.0	79.5	13.6	2.1	0.8	79.5	0.0	0.4	0.4	80.1	78.8
Bulgaria	412	8.3	61.5	20.7	4.8	4.7	61.5	0.0	0.7	4.0	66.4	56.2
Canada	1092	4.7	82.2	10.4	2.2	0.4	82.2	0.1	0.0	0.3	81.2	83.2
Chile	734	7.0	37.9	44.0	8.1	3.1	37.9	0.0	1.2	1.9	32.5	43.7
Chinese Taipei	726	4.1	83.7	10.4	1.5	0.3	83.7	0.0	0.0	0.3	83.1	84.2
Cyprus	391	9.9	60.7	21.0	6.2	2.2	60.7	0.0	0.0	2.2	60.2	61.1
Czech Republic	420	6.6	69.0	17.2	5.1	2.1	69.0	0.0	0.0	2.1	63.2	75.7
England	365	10.7	64.8	17.1	5.1	2.4	64.8	0.0	1.8	0.5	62.6	67.0
Finland	362	6.4	74.6	15.4	1.2	2.4	74.6	0.0	0.0	2.4	69.9	79.1
Hong Kong, SAR	647	4.4	81.9	11.5	1.4	0.8	81.9	0.0	0.5	0.3	81.6	82.2
Hungary	405	5.9	72.3	16.5	3.8	1.5	72.3	0.0	0.0	1.5	72.6	71.7
Indonesia	738	15.2	40.9	31.0	11.8	1.1	40.9	0.0	0.0	1.1	36.2	46.6
Iran, Islamic Rep.	657	12.2	41.1	35.9	9.2	1.6	41.1	0.0	0.1	1.5	29.5	49.5
Israel	532	8.5	68.5	13.7	6.6	2.6	68.5	0.0	0.9	1.7	67.0	70.4
Italy	428	4.9	58.0	33.6	1.7	1.7	58.0	0.0	0.3	1.5	52.5	63.9
Japan	584	9.7	82.5	5.4	1.9	0.5	82.5	0.0	0.2	0.4	82.7	82.3
Jordan	624	12.0	40.5	33.3	12.7	1.5	40.5	0.4	0.0	1.1	38.6	42.2
Korea, Rep. of	762	9.0	79.8	10.0	1.2	0.0	79.8	0.0	0.0	0.0	80.0	79.5
Latvia (LSS)	363	4.3	63.9	24.7	4.8	2.2	63.9	0.7	0.2	1.3	57.9	69.7
Lithuania	297	8.3	60.5	25.7	4.1	1.4	60.5	0.0	0.0	1.4	63.9	57.3
Macedonia, Rep. of	497	16.4	54.2	14.1	9.2	6.1	54.2	0.2	0.2	5.8	55.4	53.0
Malaysia	696	14.9	57.3	21.7	5.0	1.0	57.3	0.0	0.0	1.0	54.5	60.4
Moldova	459	17.6	42.2	26.8	8.3	5.1	42.2	0.0	0.9	4.2	44.1	40.1
Morocco	644	12.2	39.4	32.7	10.9	4.8	39.4	0.2	1.6	3.0	36.8	41.6
Netherlands	378	5.6	79.0	14.0	1.2	0.3	79.0	0.0	0.0	0.3	78.9	79.0
New Zealand	452	7.0	71.3	13.7	5.8	2.2	71.3	0.0	0.2	2.0	69.4	72.9
Philippines	820	21.1	41.3	24.1	12.8	0.7	41.3	0.2	0.0	0.5	42.1	40.4
Romania	426	10.0	51.1	29.2	6.7	2.9	51.1	0.4	0.4	2.1	48.0	54.5
Russian Federation	547	7.8	56.4	25.2	3.9	6.6	56.4	0.0	0.9	5.8	53.6	59.7
Singapore	616	5.5	71.9	19.3	3.2	0.1	71.9	0.0	0.0	0.1	70.7	73.0
Slovak Republic	437	6.6	67.2	18.4	5.3	2.5	67.2	0.0	0.0	2.5	65.3	69.2
Slovenia	376	3.5	76.2	14.7	3.9	1.6	76.2	0.3	0.0	1.4	74.6	78.1
South Africa	971	22.3	31.6	21.3	23.4	1.4	31.6	0.3	0.8	0.3	25.9	38.0
Thailand	717	19.5	43.0	30.9	5.6	1.0	43.0	0.0	0.1	0.9	45.3	40.3
Tunisia	630	13.2	39.8	23.8	19.6	3.5	39.8	0.1	0.1	3.3	35.0	44.1
Turkey	975	9.8	49.5	32.9	7.0	0.8	49.5	0.0	0.1	0.7	47.5	50.9
United States	1112	10.0	68.3	15.2	4.9	1.5	68.3	0.2	0.1	1.3	70.2	66.3
International Avg.	.	9.7	60.9	21.1	6.2	2.0	60.9	0.1	0.3	1.6	59.3	62.6

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Measurement  
 Label: Area of path around garden ( M022022 - J10 )  
 Item Type = MC Key = B

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	494	16.0	52.2	24.0	6.5	1.3	52.2	0.1	0.0	1.2	45.3	58.3
Belgium (Flemish)	656	17.5	50.5	23.1	8.1	0.8	50.5	0.0	0.0	0.8	48.8	52.2
Bulgaria	413	11.3	42.2	30.5	7.3	8.8	42.2	0.5	0.2	8.1	43.1	40.6
Canada	1086	24.2	50.7	19.9	4.6	0.7	50.7	0.1	0.2	0.4	50.0	51.3
Chile	726	18.7	18.1	38.4	18.3	6.5	18.1	0.0	0.2	6.3	20.7	15.6
Chinese Taipei	725	12.0	72.8	11.0	3.6	0.5	72.8	0.0	0.0	0.5	73.6	72.0
Cyprus	387	25.8	45.0	18.7	8.0	2.5	45.0	0.0	0.0	2.5	44.4	45.2
Czech Republic	405	18.4	40.5	31.7	6.1	3.3	40.5	0.4	0.0	2.9	34.7	47.2
England	373	20.6	40.2	29.9	8.0	1.2	40.2	0.0	0.0	1.2	33.7	47.0
Finland	362	14.9	46.1	29.5	7.9	1.6	46.1	0.0	0.4	1.1	44.8	47.2
Hong Kong, SAR	649	8.4	79.4	8.3	3.0	0.9	79.4	0.1	0.1	0.6	78.8	80.0
Hungary	400	20.1	45.7	23.0	7.6	3.4	45.7	0.2	0.0	3.2	44.6	46.7
Indonesia	730	36.7	24.9	21.3	15.5	1.7	24.9	0.0	0.0	1.7	25.6	24.0
Iran, Islamic Rep.	668	26.3	26.5	30.4	15.2	1.6	26.5	0.0	0.0	1.6	22.4	29.4
Israel	511	16.7	28.1	34.9	13.8	6.5	28.1	0.0	0.5	5.9	24.8	32.3
Italy	420	32.0	44.8	14.5	5.6	3.2	44.8	0.0	0.0	3.2	41.4	47.9
Japan	589	8.5	73.7	14.5	2.5	0.8	73.7	0.0	0.0	0.8	73.4	73.9
Jordan	635	22.6	29.1	21.5	24.1	2.7	29.1	1.0	0.0	1.7	28.1	30.0
Korea, Rep. of	765	14.6	66.6	12.9	5.7	0.3	66.6	0.0	0.0	0.3	59.5	73.7
Latvia (LSS)	357	21.2	27.9	35.3	10.9	4.7	27.9	0.2	0.2	4.3	25.0	31.4
Lithuania	288	26.8	30.7	18.6	17.0	6.8	30.7	0.3	0.3	6.2	27.7	34.1
Macedonia, Rep. of	497	22.1	29.8	23.7	9.2	15.2	29.8	0.0	0.5	14.7	28.5	31.4
Malaysia	700	22.0	52.0	18.3	6.0	1.7	52.0	0.0	0.2	1.5	52.3	51.6
Moldova	450	27.5	33.8	22.6	9.5	6.5	33.8	0.6	0.4	5.5	31.1	36.8
Morocco	665	24.8	30.8	26.0	12.4	6.0	30.8	1.5	0.6	3.8	26.8	33.6
Netherlands	371	22.0	56.7	12.9	7.0	1.5	56.7	0.3	0.1	1.1	54.7	58.8
New Zealand	456	22.8	40.1	27.4	8.4	1.3	40.1	0.0	0.0	1.3	37.7	42.2
Philippines	836	27.5	15.4	38.5	16.8	1.8	15.4	0.2	0.4	1.1	13.4	17.9
Romania	434	35.8	29.3	20.9	7.3	6.7	29.3	0.2	0.5	6.0	27.8	30.8
Russian Federation	527	31.4	37.9	16.6	7.0	7.0	37.9	0.0	0.0	7.0	37.1	38.8
Singapore	625	14.1	77.6	6.6	1.6	0.1	77.6	0.0	0.0	0.1	78.1	77.1
Slovak Republic	430	22.8	51.4	17.0	3.8	5.0	51.4	0.0	0.0	5.0	46.4	56.3
Slovenia	380	22.3	45.7	18.6	8.5	5.0	45.7	0.0	0.0	5.0	40.5	51.0
South Africa	1006	21.7	14.7	36.0	26.5	1.1	14.7	0.3	0.1	0.7	16.8	12.2
Thailand	712	24.1	34.9	33.9	6.7	0.4	34.9	0.0	0.2	0.3	35.8	33.8
Tunisia	627	16.5	38.3	28.8	12.9	3.5	38.3	0.0	0.2	3.4	33.2	42.9
Turkey	986	28.3	22.4	30.3	15.0	4.1	22.4	0.0	0.2	3.9	19.4	24.6
United States	1128	30.0	32.5	31.2	5.7	0.5	32.5	0.0	0.0	0.5	28.6	36.4
International Avg.	.	21.8	41.5	23.7	9.6	3.3	41.5	0.2	0.1	3.0	39.4	43.6

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Geometry  
 Label: NOT true for all rectangles ( M022246 - J11 )  
 Item Type = MC Key = E

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	494	4.4	4.8	7.6	20.6	60.9	1.8	60.9	1.4	0.0	0.4	61.9	59.9
Belgium (Flemish)	656	5.0	4.3	4.3	9.8	73.9	2.7	73.9	2.3	0.0	0.4	70.4	77.4
Bulgaria	413	5.2	5.1	10.9	5.5	68.2	5.1	68.2	1.0	0.2	3.9	73.7	62.2
Canada	1086	4.1	4.9	10.2	23.7	55.0	2.2	55.0	0.8	0.2	1.2	58.0	52.2
Chile	726	10.0	14.6	21.0	15.6	35.8	2.9	35.8	0.0	0.2	2.7	36.8	34.8
Chinese Taipei	725	3.8	6.6	7.1	11.1	71.1	0.4	71.1	0.0	0.0	0.4	73.3	68.9
Cyprus	388	11.4	5.9	13.9	11.8	53.8	3.2	53.8	2.3	0.0	0.9	54.7	53.2
Czech Republic	405	14.9	10.7	26.1	13.3	28.1	6.8	28.1	3.5	0.0	3.4	25.8	30.8
England	373	4.0	4.3	10.5	18.3	57.6	5.2	57.6	3.9	0.0	1.3	53.4	62.0
Finland	362	8.4	8.2	11.2	24.6	38.4	9.2	38.4	0.0	0.4	8.7	40.9	36.2
Hong Kong, SAR	649	2.4	2.7	4.1	37.5	52.8	0.5	52.8	0.0	0.1	0.3	51.1	54.6
Hungary	400	1.5	2.1	9.0	13.0	69.1	5.2	69.1	3.0	0.0	2.2	70.9	67.2
Indonesia	730	10.2	9.4	14.9	27.7	34.3	3.5	34.3	0.0	0.0	3.4	33.7	34.9
Iran, Islamic Rep.	668	11.3	9.1	13.6	19.1	46.1	0.8	46.1	0.0	0.0	0.8	41.5	49.4
Israel	511	8.5	13.8	20.6	12.3	38.8	6.0	38.8	0.9	0.5	4.6	39.3	38.4
Italy	420	7.7	11.1	12.9	9.5	56.4	2.4	56.4	0.0	0.3	2.1	49.6	62.7
Japan	589	2.3	5.0	4.8	10.4	76.0	1.5	76.0	0.8	0.0	0.7	73.5	78.4
Jordan	635	11.1	9.1	17.0	9.2	50.4	3.1	50.4	2.2	0.0	0.9	49.2	51.5
Korea, Rep. of	765	2.4	11.8	4.3	8.7	72.7	0.1	72.7	0.0	0.0	0.1	68.8	76.5
Latvia (LSS)	357	8.9	5.4	9.7	7.6	64.1	4.3	64.1	0.8	0.9	2.6	61.9	66.7
Lithuania	288	13.4	7.4	8.5	10.4	55.4	4.9	55.4	0.0	0.3	4.7	56.1	54.7
Macedonia, Rep. of	497	5.8	6.0	15.3	10.2	53.7	9.0	53.7	2.1	0.5	6.4	53.1	54.4
Malaysia	700	11.8	6.5	8.4	20.7	52.1	0.4	52.1	0.0	0.2	0.2	50.6	53.9
Moldova	450	11.0	8.2	12.2	11.2	52.8	4.6	52.8	0.7	0.4	3.4	51.3	54.5
Morocco	665	10.8	20.0	21.7	12.8	26.5	8.3	26.5	0.3	0.8	7.3	21.1	30.4
Netherlands	371	8.8	19.1	13.5	15.8	42.2	0.6	42.2	0.0	0.1	0.5	47.2	37.6
New Zealand	456	5.6	7.8	10.7	19.4	53.3	3.2	53.3	2.5	0.0	0.6	56.8	50.2
Philippines	836	14.2	16.9	25.4	12.9	29.2	1.3	29.2	0.2	0.4	0.7	32.1	25.7
Romania	435	6.7	9.4	13.7	4.8	59.2	6.3	59.2	2.5	0.5	3.3	67.1	51.7
Russian Federation	527	5.4	5.0	9.9	6.0	70.6	3.2	70.6	0.4	0.0	2.8	71.6	69.4
Singapore	625	2.7	5.9	4.1	25.4	61.4	0.5	61.4	0.4	0.0	0.2	60.3	62.5
Slovak Republic	430	7.7	8.0	7.8	11.1	63.8	1.7	63.8	0.3	0.0	1.4	61.4	66.1
Slovenia	380	5.8	9.8	9.7	10.4	61.5	2.7	61.5	1.8	0.0	0.9	57.0	66.2
South Africa	1006	15.3	15.9	28.3	13.1	24.3	3.1	24.3	2.5	0.1	0.6	23.7	24.9
Thailand	712	4.5	5.9	8.3	14.0	66.8	0.5	66.8	0.0	0.2	0.3	66.3	67.5
Tunisia	627	4.2	3.6	4.2	5.9	74.5	7.6	74.5	6.9	0.2	0.5	68.9	79.7
Turkey	986	18.3	6.7	16.4	14.8	42.1	1.7	42.1	0.0	0.2	1.5	41.0	42.9
United States	1128	7.0	9.0	14.8	22.5	46.2	0.4	46.2	0.0	0.0	0.4	44.2	48.2
International Avg.	.	7.8	8.4	12.3	14.5	53.7	3.3	53.7	1.1	0.2	2.0	53.1	54.2

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Fractions and Number Sense  
 Label: Division of fractions ( M022026 - J12 )  
 Item Type = SA Key = X

COUNTRY	N	10	19	70	77	79	99	V1	NOT	1.GIRL	2.BOY	
									REACH			% Right
Australia	494	18.7	4.0	20.3	0.0	43.2	13.8	22.7	0.0	13.8	20.5	24.7
Belgium (Flemish)	656	47.0	11.5	5.3	0.0	27.3	9.0	58.5	0.0	9.0	63.6	53.4
Bulgaria	412	64.2	7.6	2.3	0.0	15.3	10.6	71.7	0.2	10.3	76.2	66.9
Canada	1086	18.5	13.4	13.9	0.0	44.6	9.6	31.9	0.2	9.4	36.5	27.6
Chile	726	11.3	14.7	5.5	9.6	35.7	23.3	26.0	0.4	22.8	25.4	26.5
Chinese Taipei	725	82.7	0.6	2.8	0.0	11.0	3.0	83.3	0.0	3.0	90.1	76.5
Cyprus	388	12.7	8.5	13.3	0.0	40.6	24.9	21.2	0.0	24.9	23.5	19.4
Czech Republic	406	50.9	4.8	4.9	0.0	32.9	6.6	55.7	0.0	6.6	62.5	47.8
England	373	4.3	0.0	24.4	0.0	57.8	13.4	4.3	0.0	13.4	3.8	4.8
Finland	362	11.6	5.6	21.0	0.0	47.3	14.5	17.2	0.4	14.1	17.8	16.8
Hong Kong, SAR	649	80.3	0.4	1.4	0.0	13.4	4.5	80.6	0.1	4.4	83.3	78.1
Hungary	400	45.6	20.7	2.5	0.0	22.9	8.3	66.3	0.0	8.3	68.5	63.9
Indonesia	730	12.9	10.8	24.6	0.0	36.7	15.0	23.7	0.0	15.0	27.2	19.9
Iran, Islamic Rep.	668	28.8	5.7	15.5	0.0	42.0	8.0	34.5	0.0	8.0	35.6	33.7
Israel	511	18.1	4.4	12.8	0.0	37.0	27.7	22.4	0.5	27.2	25.8	18.5
Italy	420	61.3	1.7	5.3	0.0	18.4	13.3	63.0	0.3	13.0	63.1	62.9
Japan	589	77.6	1.7	0.3	0.0	15.1	5.2	79.4	0.0	5.2	81.2	77.7
Jordan	635	18.4	13.4	18.3	0.0	38.5	11.4	31.8	0.0	11.4	39.4	25.3
Korea, Rep. of	765	79.8	0.5	2.8	0.0	12.2	4.6	80.3	0.0	4.6	84.2	76.4
Latvia (LSS)	357	56.9	10.7	7.4	0.0	15.0	10.1	67.6	0.9	9.2	68.6	66.3
Lithuania	288	56.6	7.5	2.6	0.0	24.2	9.0	64.1	0.3	8.8	65.7	62.3
Macedonia, Rep. of	497	16.4	7.2	7.4	0.0	36.6	32.2	23.7	0.5	31.7	25.5	21.6
Malaysia	700	50.4	3.2	3.8	0.0	33.7	8.8	53.6	0.2	8.7	58.2	48.5
Moldova	450	55.9	1.2	0.2	0.0	32.1	10.6	57.1	0.4	10.2	60.3	53.7
Morocco	665	3.5	0.7	1.5	0.0	60.4	33.9	4.2	0.9	33.1	3.9	4.4
Netherlands	371	7.8	3.8	16.4	0.0	64.2	7.8	11.6	0.1	7.7	13.7	9.5
New Zealand	456	8.2	2.0	15.5	8.3	48.5	17.4	10.2	0.0	17.4	11.4	9.2
Philippines	836	7.6	3.8	38.6	0.0	39.8	10.2	11.4	0.4	9.7	13.5	9.0
Romania	435	58.1	7.0	2.8	0.0	22.5	9.6	65.1	0.5	9.1	72.6	58.1
Russian Federation	527	66.7	5.6	3.6	0.0	17.6	6.6	72.2	0.0	6.6	76.5	67.4
Singapore	625	81.5	2.3	2.4	0.0	11.5	2.3	83.9	0.0	2.3	87.2	80.4
Slovak Republic	430	63.0	8.1	1.7	0.0	19.9	7.3	71.0	0.0	7.3	76.1	66.1
Slovenia	380	69.1	5.0	4.9	0.0	17.4	3.6	74.1	0.0	3.6	79.0	69.1
South Africa	1006	4.0	1.3	26.4	0.0	60.2	8.1	5.3	0.1	8.0	4.7	5.9
Thailand	712	34.9	4.7	1.1	0.0	52.1	7.2	39.6	0.2	7.0	44.3	33.9
Tunisia	626	14.0	14.9	26.1	0.0	21.7	23.2	28.9	0.2	23.1	25.2	32.3
Turkey	986	22.8	18.4	6.7	0.0	39.7	12.4	41.2	0.2	12.1	46.7	37.0
United States	1128	29.0	7.9	16.1	0.0	40.4	6.7	36.8	0.0	6.7	39.1	34.6
International Avg.	.	38.2	6.5	10.1	0.5	32.9	11.9	44.6	0.2	11.7	47.4	41.8

V1 = % Scoring 1 or better V2 = % Scoring 2 or better V3 = % Scoring 3 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Data Representation, Analysis and Probability  
 Label: Interpretation of pictograph of houses ( M022030 - J13 )  
 Item Type = SA Key = X

COUNTRY	N	10	70	71	79	99	V1	NOT	ED	OMIT	1.GIRL	2.BOY
								REACH			% Right	% Right
Australia	494	86.2	0.0	2.9	9.3	1.6	86.2	0.0	1.6	84.4	87.8	
Belgium (Flemish)	656	80.2	0.0	2.0	15.3	2.4	80.2	0.0	2.4	82.6	77.9	
Bulgaria	412	58.2	1.2	3.2	19.8	17.6	58.2	0.4	17.2	58.4	57.7	
Canada	1086	88.2	0.2	1.6	7.9	2.0	88.2	0.2	1.8	89.9	86.6	
Chile	726	53.2	2.6	6.9	22.8	14.6	53.2	1.1	13.5	51.6	54.8	
Chinese Taipei	725	88.4	1.7	1.8	6.6	1.4	88.4	0.0	1.4	90.0	86.9	
Cyprus	387	66.5	1.1	5.9	18.2	8.3	66.5	0.0	8.3	62.5	70.2	
Czech Republic	406	76.1	0.4	2.0	15.4	6.1	76.1	0.3	5.8	69.5	83.8	
England	373	82.5	0.8	3.0	11.5	2.2	82.5	1.0	1.2	80.2	84.8	
Finland	362	85.9	0.2	0.9	11.6	1.5	85.9	0.4	1.0	87.5	84.5	
Hong Kong, SAR	649	92.9	0.1	2.3	2.4	2.2	92.9	0.1	2.0	93.9	91.9	
Hungary	400	61.5	0.0	2.1	30.6	5.8	61.5	0.0	5.8	61.7	61.1	
Indonesia	730	31.5	1.5	8.7	51.8	6.5	31.5	0.0	6.5	33.0	29.8	
Iran, Islamic Rep.	668	56.5	1.0	1.9	34.1	6.6	56.5	0.1	6.5	51.5	60.0	
Israel	511	60.9	1.0	2.5	28.8	6.9	60.9	0.5	6.3	57.5	65.4	
Italy	420	73.7	1.0	3.9	12.6	8.8	73.7	0.3	8.5	70.9	76.3	
Japan	589	93.0	0.1	1.1	5.0	0.8	93.0	0.0	0.8	92.8	93.1	
Jordan	635	41.8	0.2	6.5	45.0	6.5	41.8	0.0	6.5	41.6	42.0	
Korea, Rep. of	765	89.4	0.0	2.9	6.7	0.9	89.4	0.0	0.9	90.6	88.2	
Latvia (LSS)	357	78.9	0.8	1.0	14.8	4.5	78.9	0.9	3.7	75.6	82.7	
Lithuania	288	77.9	0.0	3.1	12.1	6.9	77.9	0.3	6.6	76.4	79.5	
Macedonia, Rep. of	497	53.7	4.2	3.1	25.8	13.1	53.7	0.7	12.4	53.0	54.6	
Malaysia	700	84.7	0.4	2.1	10.6	2.2	84.7	0.2	2.0	83.5	86.1	
Moldova	450	52.0	0.8	2.0	35.6	9.7	52.0	0.6	9.1	54.6	49.1	
Morocco	664	23.4	1.8	7.5	50.3	16.9	23.4	1.0	15.9	19.0	26.6	
Netherlands	371	88.5	0.3	1.5	9.3	0.4	88.5	0.1	0.3	89.3	87.6	
New Zealand	456	81.6	0.4	2.3	12.4	3.3	81.6	0.0	3.3	84.1	79.4	
Philippines	836	35.9	2.2	5.5	49.5	6.8	35.9	0.4	6.4	40.7	30.3	
Romania	435	63.1	2.3	3.0	22.5	9.1	63.1	0.5	8.7	67.6	58.8	
Russian Federation	527	72.6	1.3	1.0	19.4	5.7	72.6	0.0	5.7	72.6	72.5	
Singapore	625	95.2	0.0	1.9	2.0	0.9	95.2	0.0	0.9	96.0	94.4	
Slovak Republic	430	79.3	1.1	1.6	9.2	8.8	79.3	0.0	8.8	75.6	82.9	
Slovenia	380	81.4	1.3	1.5	12.6	3.2	81.4	0.0	3.2	79.4	83.4	
South Africa	1006	14.3	4.0	9.8	67.6	4.3	14.3	0.1	4.2	14.4	14.3	
Thailand	712	77.4	1.1	1.2	19.3	0.9	77.4	0.2	0.8	79.4	75.0	
Tunisia	626	54.8	0.5	13.5	24.7	6.5	54.8	0.2	6.3	48.4	60.6	
Turkey	986	62.0	1.6	2.8	26.4	7.2	62.0	0.4	6.8	61.4	62.4	
United States	1128	82.1	1.4	2.0	11.9	2.5	82.1	0.0	2.5	80.5	83.7	
International Avg.	.	69.1	1.0	3.4	20.8	5.7	69.1	0.3	5.4	68.5	69.6	

V1 = % Scoring 1 or better V2 = % Scoring 2 or better V3 = % Scoring 3 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Fractions and Number Sense  
 Label: Division of decimals ( M022031 - J14 )  
 Item Type = MC Key = E

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	494	27.1	25.8	12.4	12.4	19.6	2.7	19.6	0.3	0.0	2.4	19.5	19.7
Belgium (Flemish)	656	13.5	21.1	9.6	9.5	45.0	1.3	45.0	0.1	0.0	1.2	43.2	46.8
Bulgaria	413	13.7	15.2	6.1	6.6	52.5	5.8	52.5	0.3	0.5	5.0	59.8	44.6
Canada	1086	20.3	16.6	11.2	9.3	38.9	3.7	38.9	0.2	0.2	3.3	39.0	38.8
Chile	726	25.8	19.3	11.3	16.9	18.3	8.4	18.3	0.0	1.1	7.3	15.4	21.1
Chinese Taipei	725	6.8	13.8	4.2	10.4	64.3	0.5	64.3	0.0	0.0	0.5	68.2	60.5
Cyprus	385	20.0	18.0	11.3	17.1	26.2	7.4	26.2	0.7	0.0	6.6	26.7	25.9
Czech Republic	438	11.0	11.9	4.6	17.3	51.7	3.5	51.7	0.4	0.3	2.8	54.2	48.9
England	373	32.6	20.6	13.0	10.4	16.2	7.1	16.2	0.0	1.0	6.0	13.4	19.3
Finland	362	20.2	23.8	12.2	10.1	28.6	5.2	28.6	0.0	0.4	4.7	23.2	33.3
Hong Kong, SAR	649	6.3	12.6	5.0	9.3	66.4	0.5	66.4	0.0	0.1	0.3	65.7	67.0
Hungary	400	9.8	10.3	3.9	8.6	63.0	4.4	63.0	0.0	0.0	4.4	64.9	61.4
Indonesia	730	33.9	18.7	8.7	12.3	24.2	2.2	24.2	0.0	0.0	2.2	26.5	21.7
Iran, Islamic Rep.	668	23.8	27.6	14.2	12.1	14.2	8.2	14.2	0.0	0.1	8.1	15.5	13.2
Israel	511	21.2	24.7	12.0	8.4	23.5	10.2	23.5	0.0	0.7	9.5	22.1	25.4
Italy	420	14.5	19.7	9.1	7.6	36.5	12.7	36.5	0.0	0.3	12.4	35.3	37.6
Japan	589	5.3	9.3	3.9	10.9	70.2	0.3	70.2	0.0	0.0	0.3	71.6	68.9
Jordan	635	19.3	25.0	11.7	11.7	29.6	2.6	29.6	0.6	0.2	1.8	31.4	28.1
Korea, Rep. of	765	7.9	13.7	5.2	11.6	61.5	0.1	61.5	0.0	0.0	0.1	61.5	61.5
Latvia (LSS)	357	12.9	13.1	4.5	11.4	54.3	3.8	54.3	0.2	0.9	2.7	55.1	53.3
Lithuania	288	11.2	7.5	1.6	11.6	64.8	3.5	64.8	0.0	0.3	3.2	68.2	60.9
Macedonia, Rep. of	497	15.5	15.2	7.5	7.6	38.1	16.0	38.1	0.3	0.7	15.1	40.0	36.0
Malaysia	700	14.7	28.7	6.9	9.2	38.7	1.8	38.7	0.0	0.2	1.6	40.6	36.6
Moldova	450	11.8	11.6	6.4	11.1	53.3	5.8	53.3	0.2	1.5	4.1	56.8	49.4
Morocco	664	23.0	27.2	17.5	8.6	13.9	9.7	13.9	0.0	1.1	8.6	10.3	16.5
Netherlands	371	17.3	12.1	11.0	13.0	44.2	2.4	44.2	1.4	0.1	0.9	47.1	41.6
New Zealand	456	28.2	23.5	14.5	9.9	20.7	3.3	20.7	0.2	0.0	3.1	22.3	19.2
Philippines	836	28.4	29.4	10.9	9.1	20.4	1.9	20.4	0.2	0.4	1.3	22.9	17.5
Romania	435	14.1	21.2	8.4	9.5	40.2	6.7	40.2	0.0	0.5	6.2	43.3	37.2
Russian Federation	527	8.7	8.9	3.9	7.1	68.0	3.5	68.0	0.1	0.0	3.4	68.7	67.2
Singapore	625	14.3	22.7	7.1	10.2	44.8	0.9	44.8	0.0	0.0	0.9	48.0	41.5
Slovak Republic	430	7.7	10.1	1.6	8.8	69.1	2.6	69.1	0.0	0.0	2.6	70.8	67.5
Slovenia	380	12.0	14.0	6.2	9.6	53.6	4.6	53.6	0.0	0.0	4.6	56.1	51.0
South Africa	1006	32.2	23.0	12.0	10.7	18.7	3.3	18.7	0.3	0.1	2.9	18.5	18.8
Thailand	712	26.9	29.7	9.8	10.1	22.8	0.7	22.8	0.0	0.2	0.5	23.6	21.9
Tunisia	627	30.5	25.4	10.8	9.7	20.6	2.8	20.6	0.0	0.2	2.7	18.2	22.9
Turkey	986	25.8	17.4	19.7	11.8	15.1	10.2	15.1	0.0	0.4	9.9	15.0	15.2
United States	1128	13.2	22.8	9.9	13.7	39.2	1.1	39.2	0.0	0.0	1.1	42.0	36.5
International Avg.	.	17.9	18.7	8.9	10.7	39.2	4.5	39.2	0.1	0.3	4.1	40.1	38.3

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Geometry  
 Label: Two similar triangles ( M022033 - J15 )  
 Item Type = MC Key = C

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	494	3.2	16.1	66.3	4.9	9.3	0.2	66.3	0.0	0.0	0.2	69.9	63.0
Belgium (Flemish)	656	3.1	16.0	66.4	3.6	8.8	2.1	66.4	0.0	0.0	2.1	66.3	66.6
Bulgaria	413	3.0	11.4	73.7	4.2	5.7	2.0	73.7	0.2	0.5	1.2	76.0	71.1
Canada	1086	3.6	15.4	65.5	2.8	12.5	0.2	65.5	0.0	0.2	0.0	62.7	68.1
Chile	726	6.7	24.0	45.6	7.4	14.7	1.7	45.6	0.0	1.1	0.6	41.1	50.1
Chinese Taipei	725	1.8	17.4	73.8	2.1	4.8	0.1	73.8	0.0	0.0	0.1	75.5	72.1
Cyprus	389	4.6	25.3	55.2	3.1	10.3	1.5	55.2	1.4	0.0	0.2	52.1	58.1
Czech Republic	438	3.8	16.3	65.7	4.7	8.8	0.8	65.7	0.0	0.3	0.5	68.9	62.0
England	373	3.6	21.1	59.5	4.0	10.4	1.3	59.5	0.0	1.0	0.3	55.8	63.4
Finland	362	7.1	15.3	63.4	3.3	10.1	0.8	63.4	0.0	0.4	0.3	61.3	65.2
Hong Kong, SAR	649	3.6	17.6	64.7	3.1	10.8	0.1	64.7	0.0	0.1	0.0	68.1	61.5
Hungary	400	4.4	8.4	67.2	4.0	14.4	1.7	67.2	1.2	0.0	0.5	71.4	63.1
Indonesia	730	11.5	28.3	44.3	5.7	10.1	0.1	44.3	0.0	0.0	0.1	44.3	44.2
Iran, Islamic Rep.	668	5.5	14.2	61.4	3.9	14.2	0.8	61.4	0.0	0.2	0.6	61.4	61.3
Israel	511	5.7	37.1	41.8	3.5	9.5	2.4	41.8	0.5	0.9	1.1	42.4	41.4
Italy	420	5.7	18.7	64.8	3.8	5.4	1.5	64.8	0.0	0.3	1.3	65.7	64.1
Japan	589	0.8	3.5	84.4	1.8	8.4	1.0	84.4	0.5	0.0	0.5	84.7	84.2
Jordan	635	4.4	16.1	53.4	9.1	15.1	2.0	53.4	1.4	0.2	0.5	58.0	49.4
Korea, Rep. of	765	1.5	5.9	82.3	1.1	9.2	0.0	82.3	0.0	0.0	0.0	82.5	82.1
Latvia (LSS)	357	2.5	15.6	67.6	3.4	9.3	1.7	67.6	0.4	0.9	0.4	63.1	72.8
Lithuania	288	1.8	16.4	69.1	2.9	9.1	0.6	69.1	0.0	0.6	0.0	65.0	73.6
Macedonia, Rep. of	497	5.0	14.2	68.3	2.5	5.3	4.7	68.3	1.1	0.9	2.7	70.3	66.0
Malaysia	700	4.0	11.2	73.9	2.5	8.0	0.3	73.9	0.0	0.2	0.2	74.2	73.6
Moldova	450	5.0	10.8	68.2	3.8	9.5	2.7	68.2	0.7	1.5	0.5	68.1	68.3
Morocco	665	9.1	27.7	45.9	3.4	9.2	4.8	45.9	0.0	1.7	3.1	46.6	45.5
Netherlands	371	5.0	17.7	62.4	3.7	10.9	0.2	62.4	0.0	0.1	0.1	61.6	63.1
New Zealand	456	4.6	24.4	56.9	4.4	9.4	0.2	56.9	0.0	0.0	0.2	56.6	57.2
Philippines	836	15.9	24.9	40.7	6.0	11.7	0.9	40.7	0.0	0.7	0.2	37.1	44.8
Romania	434	5.0	10.8	65.9	6.1	10.2	2.0	65.9	0.7	0.5	0.9	70.8	61.2
Russian Federation	527	2.9	14.3	71.3	2.5	7.3	1.7	71.3	0.5	0.0	1.2	70.7	72.0
Singapore	625	2.1	11.1	76.2	2.2	8.5	0.0	76.2	0.0	0.0	0.0	77.8	74.5
Slovak Republic	430	2.7	21.6	69.5	1.9	4.3	0.0	69.5	0.0	0.0	0.0	74.6	64.6
Slovenia	380	3.8	15.6	66.2	6.2	7.5	0.7	66.2	0.0	0.0	0.7	66.3	66.1
South Africa	1006	14.2	21.8	28.8	12.5	17.1	5.6	28.8	4.9	0.4	0.3	27.3	30.4
Thailand	712	3.2	11.5	68.9	3.6	12.5	0.3	68.9	0.0	0.2	0.1	68.8	69.1
Tunisia	627	7.4	30.7	47.6	4.2	9.1	1.1	47.6	0.6	0.2	0.3	45.9	49.2
Turkey	986	9.1	17.0	51.7	7.2	13.8	1.2	51.7	0.0	0.4	0.8	55.0	49.1
United States	1128	4.8	16.6	62.2	3.7	12.2	0.5	62.2	0.0	0.0	0.5	61.1	63.3
International Avg.	.	5.0	17.4	62.1	4.2	9.9	1.3	62.1	0.4	0.4	0.6	62.3	62.0

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent



Mathematics: Geometry  
 Label: Point on graph from coordinates ( M022037 - J16 )  
 Item Type = MC Key = D

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	494	7.4	14.6	3.4	74.1	0.6	74.1	0.3	0.0	0.3	76.3	72.0
Belgium (Flemish)	656	11.4	15.6	0.7	70.6	1.7	70.6	0.1	0.0	1.6	75.6	65.6
Bulgaria	413	16.2	22.5	4.0	53.3	4.1	53.3	0.5	0.5	3.0	50.6	55.6
Canada	1086	4.9	23.9	3.3	67.1	0.8	67.1	0.2	0.2	0.4	68.7	65.7
Chile	726	23.6	31.3	14.5	23.3	7.2	23.3	0.0	1.1	6.1	22.9	23.8
Chinese Taipei	725	6.7	9.3	0.9	83.0	0.1	83.0	0.0	0.0	0.1	88.6	77.5
Cyprus	386	35.5	25.6	13.5	23.9	1.5	23.9	0.2	0.0	1.3	21.5	26.1
Czech Republic	438	11.1	26.7	2.3	58.2	1.8	58.2	1.2	0.3	0.3	57.4	59.0
England	373	4.5	15.4	3.3	74.7	2.0	74.7	0.4	1.0	0.5	70.4	79.2
Finland	362	9.3	14.3	2.7	71.9	1.9	71.9	0.0	0.4	1.4	70.7	73.0
Hong Kong, SAR	649	5.7	10.6	2.3	81.1	0.3	81.1	0.0	0.1	0.1	84.1	78.2
Hungary	400	5.5	19.7	1.6	70.8	2.4	70.8	1.3	0.2	0.8	76.2	65.4
Indonesia	730	20.0	20.9	8.0	49.8	1.4	49.8	0.0	0.0	1.4	50.8	48.7
Iran, Islamic Rep.	668	10.5	21.6	11.3	55.4	1.2	55.4	0.1	0.2	0.9	54.8	55.8
Israel	511	11.7	25.1	6.0	51.0	6.2	51.0	0.8	0.9	4.5	47.8	54.7
Italy	420	10.6	20.8	5.6	61.7	1.3	61.7	0.0	0.3	1.0	62.9	60.6
Japan	589	4.2	10.5	0.6	84.1	0.6	84.1	0.4	0.0	0.2	86.3	82.0
Jordan	635	10.7	18.9	11.5	57.3	1.7	57.3	0.8	0.2	0.8	61.2	53.9
Korea, Rep. of	765	6.5	8.0	1.7	83.5	0.2	83.5	0.0	0.0	0.2	84.2	82.9
Latvia (LSS)	357	28.5	20.7	2.6	46.3	1.8	46.3	0.0	0.9	1.0	42.9	50.4
Lithuania	288	4.2	27.0	1.6	63.4	3.9	63.4	0.0	0.6	3.2	63.4	63.4
Macedonia, Rep. of	497	20.1	19.8	7.9	43.8	8.4	43.8	1.6	0.9	5.9	46.8	40.5
Malaysia	700	7.5	12.0	2.1	77.9	0.5	77.9	0.0	0.2	0.3	79.4	76.2
Moldova	450	13.5	27.4	6.8	47.6	4.7	47.6	1.4	1.5	1.9	46.3	49.1
Morocco	665	29.0	21.6	17.6	25.5	6.3	25.5	0.0	2.0	4.3	23.6	26.9
Netherlands	371	5.8	14.7	0.7	78.5	0.3	78.5	0.0	0.1	0.2	83.0	74.0
New Zealand	456	5.3	17.9	4.4	71.7	0.8	71.7	0.5	0.0	0.3	74.0	69.5
Philippines	836	24.7	30.2	19.5	23.4	2.1	23.4	0.2	0.7	1.2	24.5	22.1
Romania	435	12.7	23.5	11.7	46.9	5.1	46.9	2.6	0.5	2.0	52.9	41.3
Russian Federation	527	7.0	19.7	1.0	70.8	1.5	70.8	0.1	0.0	1.4	72.8	68.5
Singapore	625	6.6	10.4	3.4	79.5	0.1	79.5	0.0	0.0	0.1	83.0	76.0
Slovak Republic	430	5.7	16.4	1.1	75.7	1.1	75.7	0.6	0.0	0.6	79.0	72.4
Slovenia	380	5.6	14.4	3.2	76.0	0.8	76.0	0.5	0.0	0.3	78.5	73.5
South Africa	1006	20.5	28.5	28.7	19.7	2.5	19.7	0.5	0.5	1.5	21.4	17.9
Thailand	712	25.0	26.9	10.1	37.5	0.5	37.5	0.0	0.2	0.4	39.9	34.5
Tunisia	625	56.7	21.7	4.5	10.3	6.8	10.3	4.9	0.2	1.7	11.5	9.2
Turkey	986	28.6	25.0	11.3	31.7	3.5	31.7	0.1	0.4	3.0	31.4	31.9
United States	1128	7.7	19.6	4.9	66.9	0.9	66.9	0.1	0.0	0.8	69.3	64.6
International Avg.	.	14.0	19.8	6.3	57.6	2.3	57.6	0.5	0.4	1.5	58.8	56.4

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Algebra  
 Label: Missing number in table ( M022041 - J17 )  
 Item Type = MC Key = A

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	494	70.1	8.9	14.6	5.4	1.0	0.0	70.1	0.0	0.0	0.0	68.0	72.0
Belgium (Flemish)	656	67.0	12.1	10.2	6.5	2.6	1.7	67.0	0.0	0.0	1.7	71.8	62.2
Bulgaria	413	64.2	10.8	12.4	4.1	2.2	6.3	64.2	0.2	1.1	5.0	62.2	65.9
Canada	1086	70.7	8.5	13.0	4.4	2.3	1.1	70.7	0.3	0.2	0.6	72.5	68.9
Chile	726	47.3	15.6	15.1	8.6	7.1	6.4	47.3	0.0	2.0	4.4	48.0	46.5
Chinese Taipei	725	79.5	6.4	5.5	4.9	3.5	0.3	79.5	0.0	0.0	0.3	79.0	80.0
Cyprus	387	64.1	12.5	12.3	5.6	4.5	1.1	64.1	0.2	0.0	0.9	67.6	61.3
Czech Republic	438	62.7	6.8	17.5	8.0	2.5	2.5	62.7	0.0	0.6	1.8	59.7	66.1
England	373	62.0	11.5	16.2	4.4	3.7	2.2	62.0	0.6	1.0	0.6	62.4	61.6
Finland	362	66.9	9.8	16.5	3.2	2.3	1.3	66.9	0.0	0.4	0.9	63.8	69.7
Hong Kong, SAR	649	76.5	9.8	8.8	2.7	1.4	0.6	76.5	0.1	0.1	0.4	76.1	77.0
Hungary	400	74.0	5.7	12.6	3.0	1.1	3.7	74.0	0.3	0.5	2.9	75.2	72.7
Indonesia	730	56.7	10.7	14.4	9.7	7.6	0.9	56.7	0.0	0.0	0.9	56.5	57.0
Iran, Islamic Rep.	668	53.4	12.3	13.2	12.0	6.7	2.5	53.4	0.0	0.3	2.1	52.4	54.0
Israel	511	68.7	11.4	7.2	6.7	2.5	3.5	68.7	0.2	1.2	2.1	66.1	71.7
Italy	420	65.2	10.2	7.9	9.7	3.6	3.4	65.2	0.0	0.3	3.1	63.1	67.1
Japan	589	78.3	9.0	6.6	3.8	1.5	0.7	78.3	0.0	0.0	0.7	74.3	82.1
Jordan	635	61.2	10.2	11.5	8.1	5.3	3.7	61.2	1.3	0.4	1.9	64.2	58.6
Korea, Rep. of	765	77.6	7.3	9.0	4.2	1.6	0.3	77.6	0.0	0.0	0.3	77.2	78.1
Latvia (LSS)	357	64.7	8.7	13.3	7.3	1.9	4.2	64.7	0.2	0.9	3.2	62.6	67.1
Lithuania	288	64.8	9.3	11.3	4.2	4.8	5.6	64.8	0.0	0.6	5.0	63.0	66.8
Macedonia, Rep. of	497	62.6	9.0	7.1	8.3	3.7	9.3	62.6	0.6	1.7	7.1	62.6	62.6
Malaysia	700	58.3	12.5	19.5	7.1	1.3	1.3	58.3	0.0	0.2	1.2	57.0	59.9
Moldova	450	68.8	4.3	8.4	5.2	6.3	7.0	68.8	1.0	1.6	4.4	65.7	72.1
Morocco	665	39.5	17.5	15.9	15.9	4.4	6.7	39.5	0.0	2.6	4.1	39.0	40.0
Netherlands	371	80.6	9.9	6.7	1.4	0.8	0.6	80.6	0.0	0.1	0.5	73.4	87.5
New Zealand	456	71.6	8.0	11.9	4.5	2.3	1.8	71.6	0.4	0.0	1.3	74.5	68.9
Philippines	836	48.1	14.6	16.1	11.8	7.6	1.8	48.1	0.0	0.8	1.0	48.5	47.5
Romania	435	63.5	8.3	12.6	6.1	4.8	4.7	63.5	0.4	0.6	3.7	66.0	61.1
Russian Federation	527	66.5	8.5	10.0	5.0	2.2	7.8	66.5	0.0	0.2	7.6	69.9	62.6
Singapore	625	66.9	10.6	16.2	5.0	1.2	0.2	66.9	0.0	0.0	0.2	67.3	66.4
Slovak Republic	430	67.9	8.3	13.5	6.6	1.8	1.9	67.9	0.0	0.3	1.7	63.9	71.7
Slovenia	380	72.9	11.0	9.1	3.8	1.7	1.5	72.9	0.0	0.3	1.3	74.4	71.3
South Africa	1006	42.9	19.2	12.6	11.3	10.5	3.4	42.9	0.9	0.8	1.7	44.1	41.6
Thailand	712	67.8	7.4	9.8	9.0	5.2	0.9	67.8	0.0	0.3	0.6	68.9	66.4
Tunisia	625	64.9	6.8	12.3	8.9	4.5	2.7	64.9	0.4	0.2	2.1	60.5	68.9
Turkey	986	57.6	8.3	13.6	11.0	7.1	2.3	57.6	0.0	0.8	1.5	59.4	56.3
United States	1128	62.9	11.7	15.9	5.2	3.3	0.9	62.9	0.1	0.1	0.7	60.4	65.4
International Avg.	.	64.7	10.1	12.1	6.6	3.6	2.8	64.7	0.2	0.5	2.1	64.2	65.2

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Fractions and Number Sense  
 Label: Distance between towns from map ( M022038 - J18 )  
 Item Type = MC Key = D

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	494	8.4	9.1	18.7	63.5	0.2	63.5	0.0	0.0	0.2	67.3	60.1
Belgium (Flemish)	656	3.0	2.9	10.3	82.8	1.1	82.8	0.0	0.0	1.1	83.5	82.0
Bulgaria	413	7.0	6.3	17.4	63.5	5.7	63.5	0.0	1.8	3.9	62.9	64.8
Canada	1086	5.5	8.0	20.9	65.4	0.3	65.4	0.0	0.2	0.0	65.3	65.5
Chile	726	15.5	25.5	24.2	29.9	4.9	29.9	0.0	2.2	2.7	28.6	31.2
Chinese Taipei	725	5.5	8.4	15.6	70.1	0.4	70.1	0.0	0.0	0.4	74.2	66.1
Cyprus	388	7.9	14.7	15.9	60.9	0.6	60.9	0.2	0.0	0.4	58.8	62.7
Czech Republic	440	4.9	9.2	17.7	67.5	0.6	67.5	0.0	0.6	0.0	63.6	71.8
England	373	12.2	10.2	14.7	61.8	1.0	61.8	0.0	1.0	0.0	54.9	69.0
Finland	362	5.5	5.0	27.9	61.1	0.4	61.1	0.0	0.4	0.0	63.3	59.2
Hong Kong, SAR	.	.	.	.	.	.	.	.	.	.	.	.
Hungary	400	6.8	6.6	20.2	65.3	1.2	65.3	0.0	0.8	0.4	64.5	66.6
Indonesia	730	18.7	19.5	16.2	44.0	1.6	44.0	0.0	0.0	1.6	43.1	45.0
Iran, Islamic Rep.	668	10.7	22.6	28.1	37.5	1.1	37.5	0.0	0.3	0.8	30.8	42.2
Israel	511	12.2	16.1	23.8	43.5	4.3	43.5	0.7	1.5	2.1	39.8	48.3
Italy	420	8.7	11.0	16.4	63.1	0.7	63.1	0.0	0.3	0.5	61.7	64.3
Japan	589	3.8	5.4	6.0	84.8	0.0	84.8	0.0	0.0	0.0	82.1	87.4
Jordan	635	15.7	19.7	15.9	46.0	2.8	46.0	0.9	0.4	1.5	46.9	45.2
Korea, Rep. of	765	5.8	10.5	23.1	60.3	0.3	60.3	0.0	0.0	0.3	62.8	57.8
Latvia (LSS)	357	9.5	5.7	15.3	68.3	1.3	68.3	0.0	0.9	0.4	64.9	72.3
Lithuania	288	7.1	6.2	10.5	74.8	1.5	74.8	0.0	0.9	0.6	70.2	79.8
Macedonia, Rep. of	497	12.3	20.1	20.9	42.7	4.0	42.7	0.0	1.7	2.3	42.5	43.0
Malaysia	700	6.1	4.5	11.8	77.0	0.5	77.0	0.1	0.2	0.2	78.3	75.6
Moldova	450	14.3	5.8	11.5	63.8	4.6	63.8	0.2	2.0	2.4	62.3	65.5
Morocco	665	15.1	31.7	21.3	25.0	6.8	25.0	0.2	3.0	3.6	23.6	26.1
Netherlands	371	5.7	7.0	16.0	70.0	1.3	70.0	0.8	0.1	0.4	72.3	68.0
New Zealand	456	13.4	6.5	21.2	58.2	0.7	58.2	0.0	0.0	0.7	56.3	59.8
Philippines	836	22.0	29.1	22.7	24.4	1.8	24.4	0.0	0.8	1.0	23.5	25.5
Romania	435	13.0	12.9	20.7	50.9	2.4	50.9	0.2	0.8	1.5	51.6	50.3
Russian Federation	527	10.5	5.2	13.9	68.1	2.4	68.1	0.0	1.1	1.4	65.3	71.2
Singapore	625	3.1	5.2	9.3	82.2	0.1	82.2	0.0	0.0	0.1	84.1	80.2
Slovak Republic	430	7.6	11.0	20.4	60.8	0.3	60.8	0.0	0.3	0.0	51.4	69.9
Slovenia	380	6.5	4.3	18.4	70.1	0.8	70.1	0.3	0.3	0.2	68.3	71.8
South Africa	1006	21.8	28.6	21.2	26.3	2.1	26.3	0.5	1.0	0.6	27.2	25.2
Thailand	712	8.1	18.4	16.3	56.4	0.8	56.4	0.0	0.4	0.4	56.9	55.9
Tunisia	627	15.0	15.1	15.1	53.9	1.0	53.9	0.0	0.3	0.6	51.0	56.5
Turkey	986	10.2	26.0	27.3	34.5	1.9	34.5	0.1	0.9	1.0	30.2	37.8
United States	1128	6.9	17.7	34.3	40.0	1.1	40.0	0.1	0.1	0.9	43.5	36.7
International Avg.	.	9.9	12.7	18.4	57.3	1.7	57.3	0.1	0.7	0.9	56.2	58.4

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Fractions and Number Sense  
 Label: Circle with same shaded fraction ( M022043 - K01 )  
 Item Type = MC Key = D

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	504	11.5	3.0	4.1	74.8	5.3	1.2	74.8	0.0	0.3	0.9	75.0	74.7
Belgium (Flemish)	657	9.3	2.5	3.5	81.1	3.7	0.0	81.1	0.0	0.0	0.0	84.7	77.5
Bulgaria	404	16.2	4.3	9.5	62.2	4.2	3.6	62.2	0.8	0.0	2.8	65.7	58.9
Canada	1112	12.0	2.3	3.2	80.2	2.2	0.1	80.2	0.1	0.0	0.0	81.1	79.2
Chile	744	15.6	5.0	9.0	63.8	5.8	0.8	63.8	0.0	0.0	0.8	59.5	68.7
Chinese Taipei	718	9.1	3.5	2.8	80.1	4.0	0.4	80.1	0.0	0.1	0.3	81.4	78.8
Cyprus	389	17.3	2.4	6.5	68.8	4.8	0.3	68.8	0.0	0.0	0.3	67.0	70.4
Czech Republic	443	10.3	2.4	2.7	78.1	5.2	1.3	78.1	0.0	0.0	1.3	77.9	78.4
England	373	14.0	4.0	4.1	76.1	1.8	0.0	76.1	0.0	0.0	0.0	71.3	79.9
Finland	367	9.2	1.7	1.9	84.5	2.3	0.4	84.5	0.0	0.0	0.4	86.3	82.6
Hong Kong, SAR	656	9.4	4.8	1.3	82.7	1.7	0.0	82.7	0.0	0.0	0.0	81.4	84.1
Hungary	400	15.4	1.8	3.1	76.6	2.5	0.6	76.6	0.2	0.3	0.0	74.2	80.5
Indonesia	735	14.6	13.9	11.0	53.4	5.4	1.6	53.4	0.0	0.0	1.6	51.8	55.0
Iran, Islamic Rep.	657	19.1	3.5	14.0	51.7	10.5	1.1	51.7	0.0	0.0	1.1	42.0	58.1
Israel	523	13.4	3.8	6.2	71.2	4.3	1.1	71.2	0.2	0.1	0.8	69.5	72.8
Italy	419	10.6	3.1	4.9	78.1	2.3	1.0	78.1	0.0	0.0	1.0	77.8	78.3
Japan	590	6.1	3.2	1.4	87.8	1.0	0.5	87.8	0.2	0.2	0.1	86.7	88.9
Jordan	638	22.7	12.0	11.5	40.9	10.7	2.3	40.9	1.2	0.0	1.1	40.7	41.0
Korea, Rep. of	764	6.1	2.8	2.2	88.1	0.9	0.0	88.1	0.0	0.0	0.0	89.1	87.1
Latvia (LSS)	357	14.1	2.5	4.5	75.7	2.2	1.1	75.7	0.0	0.2	0.8	76.2	75.1
Lithuania	299	13.2	1.8	6.8	75.0	1.8	1.4	75.0	0.0	0.0	1.4	78.0	71.3
Macedonia, Rep. of	500	13.8	7.2	8.7	55.1	9.8	5.5	55.1	0.9	0.2	4.4	51.4	58.7
Malaysia	699	11.9	2.9	6.0	76.4	2.1	0.7	76.4	0.0	0.2	0.6	76.5	76.3
Moldova	460	14.9	5.6	14.3	57.8	5.4	2.0	57.8	0.0	0.0	2.0	51.6	65.5
Morocco	696	15.7	10.9	14.8	36.8	14.2	7.7	36.8	1.1	0.0	6.5	29.8	41.8
Netherlands	369	6.4	1.8	2.4	87.0	2.1	0.2	87.0	0.0	0.2	0.0	88.8	84.8
New Zealand	447	12.2	3.5	3.7	76.4	4.0	0.2	76.4	0.0	0.2	0.0	76.5	76.2
Philippines	813	15.8	13.6	16.5	44.3	8.8	0.9	44.3	0.3	0.0	0.7	46.4	42.0
Romania	428	15.7	3.9	10.3	63.9	4.7	1.6	63.9	0.2	0.0	1.4	61.9	65.4
Russian Federation	549	11.8	1.8	7.0	76.3	2.6	0.5	76.3	0.0	0.0	0.5	74.8	77.7
Singapore	624	9.8	0.9	1.4	86.8	1.1	0.0	86.8	0.0	0.0	0.0	87.4	86.3
Slovak Republic	430	8.4	3.1	8.9	77.2	1.8	0.6	77.2	0.0	0.0	0.6	76.2	78.4
Slovenia	396	10.5	3.9	4.7	77.1	3.3	0.4	77.1	0.0	0.0	0.4	77.1	77.0
South Africa	1034	10.5	19.6	17.3	26.0	18.8	7.7	26.0	1.1	0.2	6.4	22.1	30.1
Thailand	713	10.7	4.9	8.2	72.3	3.7	0.1	72.3	0.0	0.0	0.1	72.7	71.9
Tunisia	628	15.2	3.3	9.2	61.7	7.6	3.0	61.7	0.4	0.0	2.6	55.5	68.0
Turkey	976	21.8	3.3	8.7	61.7	4.1	0.5	61.7	0.0	0.0	0.5	58.4	63.8
United States	1126	13.7	2.6	6.7	73.2	3.4	0.5	73.2	0.0	0.2	0.3	73.9	72.5
International Avg.	.	12.8	4.7	6.9	69.5	4.7	1.3	69.5	0.2	0.1	1.1	68.4	70.5

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Fractions and Number Sense  
 Label: Total kilograms of seed from mixture ( M022046 - K02 )  
 Item Type = SA Key = X

COUNTRY	N	NOT REACHED										1.GIRL		2.BOY	
		10	19	70	71	72	77	79	99	V1	ED	OMIT	% Right	% Right	
Australia	504	64.1	0.0	3.3	7.2	2.4	0.0	15.8	7.1	64.1	0.3	6.8	65.6	62.7	
Belgium (Flemish)	657	74.8	0.1	6.9	7.3	0.4	0.0	8.0	2.5	75.0	0.0	2.5	77.9	72.1	
Bulgaria	404	68.7	0.0	2.8	5.1	2.3	0.0	9.5	11.6	68.7	0.0	11.6	74.3	63.5	
Canada	1112	74.7	0.0	1.5	3.6	3.9	0.0	12.6	3.7	74.7	0.0	3.7	78.2	71.2	
Chile	744	48.4	0.0	0.8	5.1	14.6	0.4	16.5	14.2	48.4	0.0	14.2	49.6	47.1	
Chinese Taipei	718	86.5	0.0	0.6	4.1	1.0	0.0	6.3	1.6	86.5	0.1	1.4	86.1	86.9	
Cyprus	384	54.4	0.0	7.1	4.0	2.3	0.0	12.7	19.6	54.4	0.0	19.6	60.0	49.2	
Czech Republic	443	77.7	0.0	3.1	4.1	2.5	0.0	11.4	1.1	77.7	0.0	1.1	76.6	79.1	
England	373	51.9	0.0	9.0	5.2	7.4	0.0	20.5	6.0	51.9	0.0	6.0	51.2	52.5	
Finland	367	69.7	0.3	3.9	5.3	2.9	0.0	15.9	2.1	70.0	0.0	2.1	73.4	66.4	
Hong Kong, SAR	656	79.1	1.0	0.2	5.2	0.0	0.0	10.2	4.4	80.0	0.0	4.4	82.6	77.4	
Hungary	400	76.9	0.0	2.1	1.7	1.5	0.0	11.4	6.3	76.9	0.3	6.0	79.5	73.1	
Indonesia	735	57.5	0.0	2.3	2.6	8.1	0.0	24.5	5.1	57.5	0.0	5.1	61.3	53.8	
Iran, Islamic Rep.	658	51.2	0.0	5.2	7.1	5.2	0.0	23.0	8.4	51.2	0.0	8.4	52.9	50.1	
Israel	523	48.8	0.3	14.0	6.2	3.4	0.0	15.7	11.7	49.1	0.4	11.4	55.9	42.9	
Italy	419	64.9	0.0	2.1	8.4	2.0	0.0	9.9	12.7	64.9	0.0	12.7	64.8	65.0	
Japan	590	82.6	0.0	0.8	4.5	1.4	0.0	7.5	3.3	82.6	0.2	3.1	85.6	79.5	
Jordan	638	50.7	0.2	5.5	2.5	4.0	0.0	29.0	8.1	50.9	0.0	8.1	56.8	45.8	
Korea, Rep. of	764	69.6	10.8	0.4	3.3	1.6	0.0	11.1	3.3	80.3	0.0	3.3	82.1	78.5	
Latvia (LSS)	357	75.6	0.0	0.0	0.4	0.0	0.0	19.0	5.0	75.6	0.2	4.8	77.4	73.3	
Lithuania	299	77.0	0.6	1.2	4.9	0.3	0.0	8.9	7.1	77.5	0.0	7.1	77.6	77.4	
Macedonia, Rep. of	500	39.8	0.5	4.1	1.1	3.8	0.0	18.5	32.1	40.3	0.2	32.0	44.2	36.5	
Malaysia	698	91.0	0.1	0.3	2.8	0.2	0.0	4.8	0.7	91.1	0.2	0.6	92.4	89.7	
Moldova	460	72.7	1.3	3.1	0.3	0.3	0.0	14.7	7.6	74.1	0.0	7.6	80.1	66.4	
Morocco	696	47.2	0.1	0.0	2.4	0.6	0.0	27.6	22.1	47.2	0.0	22.1	44.9	48.9	
Netherlands	369	56.7	0.0	3.3	8.1	3.3	0.0	24.3	4.3	56.7	0.2	4.0	63.2	48.7	
New Zealand	447	56.4	0.3	4.1	5.4	7.8	0.0	21.0	5.1	56.6	0.2	4.9	59.6	53.2	
Philippines	813	47.2	0.0	1.5	3.7	7.0	0.0	33.5	7.1	47.2	0.0	7.1	51.6	42.3	
Romania	428	57.6	0.2	6.4	5.3	1.2	0.0	15.2	14.2	57.8	0.0	14.2	65.5	51.9	
Russian Federation	549	84.9	0.0	1.1	4.3	0.9	0.0	4.6	4.2	84.9	0.0	4.2	88.8	81.0	
Singapore	624	89.9	0.2	0.0	3.8	0.0	0.0	5.0	1.1	90.1	0.0	1.1	88.9	91.2	
Slovak Republic	430	76.3	0.0	3.8	2.7	0.9	0.0	10.3	6.0	76.3	0.0	6.0	80.6	71.0	
Slovenia	396	70.4	0.2	2.9	5.6	1.1	0.0	12.8	7.0	70.6	0.0	7.0	73.6	67.2	
South Africa	1034	20.8	0.0	5.6	2.6	5.2	0.0	58.2	7.6	20.8	0.2	7.4	19.2	22.4	
Thailand	713	58.4	1.9	3.3	0.5	4.6	0.0	28.3	3.1	60.3	0.0	3.1	63.2	57.1	
Tunisia	628	67.5	0.0	10.5	2.8	1.9	0.0	9.5	7.8	67.5	0.0	7.8	67.8	67.2	
Turkey	976	40.9	0.2	6.4	0.8	8.7	0.0	26.5	16.4	41.1	0.1	16.3	44.3	39.1	
United States	1126	68.2	0.0	0.5	4.3	3.1	0.0	19.2	4.7	68.2	0.2	4.5	70.6	66.0	
International Avg.	.	64.5	0.5	3.4	4.1	3.1	0.0	16.7	7.8	65.0	0.1	7.7	67.6	62.3	

V1 = % Scoring 1 or better V2 = % Scoring 2 or better V3 = % Scoring 3 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Geometry  
 Label: Rotated 3-dimensional object ( M022049 - K03 )  
 Item Type = MC Key = D

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	504	8.3	12.5	6.1	70.5	2.6	70.5	1.1	0.3	1.2	66.7	74.3
Belgium (Flemish)	657	3.7	11.5	2.0	82.0	0.8	82.0	0.8	0.0	0.0	78.3	85.6
Bulgaria	404	10.1	11.2	4.0	71.1	3.7	71.1	1.2	0.0	2.5	66.8	75.5
Canada	1112	10.2	16.3	8.3	63.4	1.7	63.4	1.3	0.0	0.4	57.7	70.2
Chile	744	12.9	18.3	9.0	59.1	0.6	59.1	0.0	0.0	0.6	55.2	63.5
Chinese Taipei	718	6.7	6.9	3.8	82.3	0.3	82.3	0.0	0.1	0.2	80.3	84.4
Cyprus	389	10.4	18.2	6.8	62.1	2.4	62.1	0.5	0.0	1.9	61.8	62.4
Czech Republic	443	7.6	9.4	4.0	76.9	2.1	76.9	0.8	0.0	1.3	73.5	81.1
England	373	6.6	14.4	5.6	70.4	2.9	70.4	2.7	0.0	0.2	67.6	72.7
Finland	367	9.8	5.7	1.2	82.5	0.9	82.5	0.0	0.0	0.9	83.0	81.8
Hong Kong, SAR	656	8.4	9.1	8.3	73.7	0.4	73.7	0.0	0.0	0.4	65.5	82.1
Hungary	400	5.3	13.3	9.7	69.1	2.6	69.1	1.0	0.3	1.2	67.4	71.9
Indonesia	735	13.0	16.8	26.9	41.9	1.4	41.9	0.0	0.0	1.4	43.6	40.2
Iran, Islamic Rep.	658	16.0	18.8	8.0	55.9	1.4	55.9	0.0	0.1	1.2	54.3	56.9
Israel	523	10.9	20.1	5.7	58.9	4.4	58.9	1.9	0.4	2.2	49.7	67.3
Italy	419	13.1	20.3	5.4	60.4	0.9	60.4	0.0	0.0	0.9	54.6	66.0
Japan	590	7.6	11.9	2.4	77.8	0.3	77.8	0.0	0.2	0.1	73.7	82.1
Jordan	638	14.8	16.0	9.5	58.1	1.6	58.1	0.6	0.0	0.9	55.2	60.5
Korea, Rep. of	764	4.9	10.3	2.7	81.7	0.4	81.7	0.0	0.0	0.4	78.0	85.4
Latvia (LSS)	357	8.3	13.8	1.7	75.7	0.5	75.7	0.1	0.2	0.1	73.6	78.2
Lithuania	299	9.5	16.4	8.3	63.7	2.1	63.7	0.0	0.0	2.1	63.3	64.2
Macedonia, Rep. of	500	17.1	14.0	8.5	56.6	3.8	56.6	1.6	0.2	2.0	54.3	58.8
Malaysia	699	10.1	14.1	8.5	66.7	0.6	66.7	0.2	0.2	0.3	61.9	72.2
Moldova	458	12.6	22.2	7.2	57.0	1.0	57.0	0.2	0.0	0.7	51.9	63.6
Morocco	696	15.0	21.5	12.0	43.3	8.2	43.3	2.6	0.0	5.6	45.3	41.9
Netherlands	369	3.1	8.7	0.6	86.5	1.2	86.5	0.9	0.2	0.0	85.6	87.5
New Zealand	447	9.2	9.4	4.6	75.5	1.3	75.5	0.8	0.2	0.3	69.5	82.5
Philippines	813	23.3	17.8	11.6	47.3	0.0	47.3	0.0	0.0	0.0	46.3	48.4
Romania	428	11.6	19.5	11.8	52.8	4.3	52.8	1.9	0.0	2.4	47.0	57.3
Russian Federation	549	9.7	16.7	4.6	67.7	1.4	67.7	1.2	0.0	0.2	61.9	73.5
Singapore	624	6.8	11.0	5.4	76.1	0.7	76.1	0.7	0.0	0.0	71.7	80.0
Slovak Republic	430	7.9	7.9	4.0	79.4	0.8	79.4	0.0	0.0	0.8	76.0	83.4
Slovenia	396	9.3	10.2	3.7	76.4	0.4	76.4	0.0	0.0	0.4	75.9	76.9
South Africa	1034	19.2	22.1	20.8	34.9	3.0	34.9	0.5	0.3	2.2	30.5	39.3
Thailand	713	11.1	19.2	16.5	52.6	0.6	52.6	0.1	0.0	0.5	44.6	61.6
Tunisia	628	11.9	19.7	8.1	47.8	12.6	47.8	11.6	0.0	1.0	40.3	55.5
Turkey	976	16.2	17.0	20.3	45.0	1.5	45.0	0.1	0.1	1.3	44.3	45.5
United States	1126	9.5	18.0	6.4	65.5	0.5	65.5	0.3	0.2	0.1	65.5	65.6
International Avg.	.	10.6	14.7	7.7	65.0	2.0	65.0	0.9	0.1	1.0	61.6	68.4

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Algebra  
 Label: Inequality equivalent to  $x/3 > 8$  ( M022050 - K04 )  
 Item Type = MC Key = E

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	504	3.8	20.6	34.5	7.6	28.4	5.0	28.4	0.0	0.3	4.7	27.9	28.9
Belgium (Flemish)	657	1.2	22.0	29.6	7.1	33.9	6.2	33.9	0.5	0.0	5.7	36.7	31.3
Bulgaria	403	2.8	7.0	25.1	3.9	52.5	8.8	52.5	0.8	0.0	8.0	51.5	53.6
Canada	1112	3.6	19.5	33.2	9.8	31.9	2.0	31.9	0.5	0.0	1.5	32.0	31.8
Chile	744	9.8	17.3	37.1	11.3	17.0	7.4	17.0	0.0	0.0	7.4	15.6	18.6
Chinese Taipei	718	5.4	13.7	24.7	3.7	51.8	0.6	51.8	0.0	0.1	0.5	50.1	53.6
Cyprus	388	2.9	25.2	29.0	5.7	34.9	2.4	34.9	0.0	0.0	2.4	39.7	30.4
Czech Republic	443	5.2	22.0	25.1	4.3	34.4	9.0	34.4	1.2	0.0	7.7	33.7	35.3
England	373	3.0	14.6	50.4	9.1	20.6	2.4	20.6	0.0	0.0	2.4	17.2	23.3
Finland	367	4.1	16.4	44.8	9.8	21.4	3.5	21.4	0.0	0.0	3.5	21.2	21.6
Hong Kong, SAR	656	8.6	17.0	20.9	7.8	45.1	0.6	45.1	0.0	0.0	0.6	43.9	46.4
Hungary	400	1.7	11.5	29.7	2.0	49.8	5.3	49.8	0.5	0.3	4.4	48.7	51.7
Indonesia	735	10.1	20.1	39.1	10.0	20.1	0.6	20.1	0.0	0.0	0.6	19.5	20.6
Iran, Islamic Rep.	658	5.8	21.4	34.9	7.9	27.9	2.0	27.9	0.0	0.1	1.9	31.0	25.9
Israel	523	4.2	12.3	28.4	9.0	37.7	8.4	37.7	0.2	0.4	7.9	35.3	39.8
Italy	419	2.8	16.3	44.5	6.0	23.1	7.2	23.1	0.0	0.0	7.2	27.1	19.2
Japan	590	3.0	20.3	17.7	4.9	52.8	1.2	52.8	0.2	0.2	0.9	51.8	53.9
Jordan	638	5.2	15.6	39.5	8.2	27.7	3.8	27.7	1.3	0.0	2.5	31.3	24.7
Korea, Rep. of	764	1.1	10.4	23.2	4.8	59.9	0.6	59.9	0.0	0.0	0.6	58.5	61.2
Latvia (LSS)	357	2.7	15.9	36.0	6.6	34.8	4.0	34.8	0.4	0.2	3.4	35.7	33.8
Lithuania	299	5.3	13.4	36.0	4.5	30.3	10.6	30.3	0.0	0.0	10.6	35.2	24.1
Macedonia, Rep. of	500	5.1	10.0	31.5	7.2	39.1	7.0	39.1	0.1	0.2	6.7	41.5	36.8
Malaysia	699	3.1	28.1	19.0	5.9	40.9	2.9	40.9	0.0	0.2	2.7	44.4	37.0
Moldova	460	5.9	11.4	39.3	5.1	35.9	2.4	35.9	0.0	0.0	2.3	39.2	31.7
Morocco	696	7.3	14.9	47.6	9.4	12.5	8.3	12.5	1.2	0.0	7.2	13.0	12.3
Netherlands	369	4.8	21.6	30.8	8.9	32.6	1.2	32.6	0.3	0.2	0.6	32.8	32.5
New Zealand	447	5.9	17.3	41.6	11.1	21.9	2.3	21.9	0.0	0.2	2.0	23.7	19.7
Philippines	812	8.6	28.7	32.6	7.7	21.5	0.9	21.5	0.0	0.0	0.9	23.4	19.3
Romania	428	3.2	12.2	31.6	4.9	45.7	2.4	45.7	0.4	0.0	2.1	51.5	41.3
Russian Federation	549	1.3	8.0	33.9	3.6	48.8	4.4	48.8	0.4	0.0	4.1	48.5	49.1
Singapore	624	0.9	20.6	14.3	6.2	57.0	1.1	57.0	0.0	0.0	1.1	59.7	54.5
Slovak Republic	430	3.4	10.8	30.0	3.9	45.7	6.3	45.7	0.2	0.0	6.0	53.4	36.5
Slovenia	396	2.9	20.6	23.2	5.4	41.4	6.4	41.4	0.4	0.0	6.1	43.3	39.3
South Africa	1034	6.9	11.1	62.9	8.1	9.3	1.7	9.3	0.0	0.3	1.3	9.7	8.8
Thailand	713	3.6	15.3	32.7	10.7	36.6	1.1	36.6	0.0	0.0	1.1	40.0	32.7
Tunisia	627	2.8	13.6	37.6	9.1	25.8	11.1	25.8	7.2	0.0	3.8	21.3	30.5
Turkey	976	6.6	16.0	30.8	8.8	31.4	6.4	31.4	0.0	0.1	6.3	31.6	31.4
United States	1126	4.7	23.3	24.0	8.6	38.0	1.4	38.0	0.0	0.2	1.3	40.6	35.6
International Avg.	.	4.5	16.7	32.8	7.1	34.7	4.2	34.7	0.4	0.1	3.7	35.8	33.6

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Measurement  
 Label: Perimeter of square from area ( M022055 - K05 )  
 Item Type = SA Key = X

COUNTRY	N	NOT REACH								1.GIRL		2.BOY	
		10	70	71	72	73	79	99	V1	ED	OMIT	% Right	% Right
Australia	504	40.4	4.3	9.1	3.8	11.8	21.9	8.7	40.4	0.3	8.3	33.6	46.9
Belgium (Flemish)	657	52.4	8.7	5.4	5.8	3.7	15.3	8.7	52.4	0.0	8.7	53.4	51.4
Bulgaria	404	49.3	3.7	1.1	2.7	4.5	16.3	22.3	49.3	0.0	22.3	43.6	55.2
Canada	1112	38.1	10.5	5.6	7.4	7.5	23.4	7.4	38.1	0.0	7.4	38.1	38.3
Chile	744	6.1	7.5	1.9	4.0	12.0	28.6	39.9	6.1	0.0	39.9	3.8	8.7
Chinese Taipei	718	62.0	4.6	5.6	2.7	4.1	19.0	2.0	62.0	0.1	1.9	59.9	64.2
Cyprus	384	49.7	9.4	4.9	3.5	3.4	15.4	13.6	49.7	0.0	13.6	50.4	49.1
Czech Republic	443	43.7	4.4	7.4	3.8	9.8	21.0	9.9	43.7	0.0	9.9	37.0	51.8
England	373	33.6	11.3	5.4	4.7	8.5	26.7	9.9	33.6	0.0	9.9	29.7	36.8
Finland	367	23.9	8.7	2.6	10.7	4.3	42.2	7.6	23.9	0.0	7.6	20.3	27.7
Hong Kong, SAR	656	65.4	2.4	10.9	3.2	1.7	11.4	5.0	65.4	0.0	5.0	64.0	66.9
Hungary	400	47.0	2.7	3.6	4.7	3.5	22.2	16.3	47.0	0.3	16.0	45.1	50.1
Indonesia	737	17.1	7.7	4.1	3.4	8.9	48.9	9.9	17.1	0.0	9.9	16.8	17.3
Iran, Islamic Rep.	658	15.4	6.5	1.6	7.0	20.1	40.4	9.2	15.4	0.1	9.1	13.5	16.6
Israel	523	21.6	9.6	1.3	8.7	11.2	21.3	26.4	21.6	0.5	25.8	18.6	24.2
Italy	419	58.8	4.8	5.6	2.2	4.7	12.2	11.6	58.8	0.0	11.6	56.5	61.1
Japan	590	30.6	6.2	24.5	8.2	5.2	14.6	10.8	30.6	0.2	10.6	31.3	29.8
Jordan	638	18.6	5.8	2.1	8.5	9.4	43.2	12.4	18.6	0.0	12.4	15.1	21.6
Korea, Rep. of	764	59.9	3.5	3.4	1.5	1.3	22.4	8.0	59.9	0.0	8.0	56.6	63.1
Latvia (LSS)	357	39.8	1.6	5.2	8.9	3.2	27.4	13.9	39.8	0.2	13.6	39.3	40.5
Lithuania	299	31.1	5.9	5.3	8.1	12.0	22.6	15.0	31.1	0.0	15.0	32.6	29.2
Macedonia, Rep. of	500	32.8	2.9	0.5	4.1	2.5	18.3	39.0	32.8	0.6	38.4	35.4	30.2
Malaysia	699	45.8	13.9	2.4	3.2	6.8	20.5	7.5	45.8	0.2	7.3	46.9	44.7
Moldova	460	37.7	5.8	2.7	4.6	6.7	18.5	23.9	37.7	0.0	23.9	34.4	41.9
Morocco	696	2.8	4.4	1.4	7.8	5.6	37.8	40.2	2.8	0.1	40.0	1.9	3.5
Netherlands	369	39.4	9.8	7.2	9.9	4.1	25.7	3.9	39.4	0.2	3.7	39.4	39.2
New Zealand	447	27.1	5.5	4.9	6.8	13.4	33.3	8.9	27.1	0.2	8.7	25.6	28.9
Philippines	812	2.2	7.8	5.1	5.9	11.8	47.2	20.0	2.2	0.2	19.9	2.4	2.1
Romania	428	54.5	5.9	1.6	3.3	5.5	14.1	15.0	54.5	0.2	14.8	58.3	51.6
Russian Federation	549	52.6	2.4	2.1	3.3	2.9	21.2	15.6	52.6	0.0	15.6	46.8	58.4
Singapore	624	74.5	6.7	4.8	1.4	1.7	9.3	1.8	74.5	0.0	1.8	73.5	75.4
Slovak Republic	430	52.5	3.6	5.6	5.9	9.4	14.9	8.2	52.5	0.0	8.2	52.0	53.1
Slovenia	396	47.0	5.2	4.9	2.4	6.3	21.5	12.8	47.0	0.0	12.8	49.0	44.8
South Africa	1034	2.6	3.5	6.4	8.6	5.3	60.8	12.8	2.6	0.3	12.4	1.6	3.6
Thailand	713	20.2	17.9	5.7	8.9	11.5	29.8	6.1	20.2	0.2	5.8	19.8	20.5
Tunisia	619	30.9	17.9	1.1	3.7	6.0	27.3	13.1	30.9	0.0	13.1	24.6	37.3
Turkey	976	20.8	9.5	2.2	3.8	11.5	33.7	18.5	20.8	0.1	18.4	21.7	20.3
United States	1126	28.5	10.4	4.8	5.7	8.5	35.7	6.4	28.5	0.2	6.3	25.3	31.4
International Avg.	.	36.2	6.9	4.7	5.3	7.1	25.9	13.7	36.2	0.1	13.6	34.7	37.8

V1 = % Scoring 1 or better V2 = % Scoring 2 or better V3 = % Scoring 3 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent



Mathematics: Fractions and Number Sense  
 Label: Approximate tons of fertilizer sold ( M022057 - K06 )  
 Item Type = MC Key = C

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	504	6.4	8.1	75.6	6.3	1.7	1.8	75.6	0.0	0.3	1.5	75.4	75.9
Belgium (Flemish)	657	15.2	6.4	71.2	4.7	1.8	0.8	71.2	0.1	0.0	0.7	67.6	74.6
Bulgaria	404	14.1	11.5	55.5	8.9	3.1	6.9	55.5	0.2	0.0	6.7	58.6	52.7
Canada	1112	8.4	5.2	80.2	3.9	1.7	0.6	80.2	0.0	0.0	0.6	78.5	82.5
Chile	744	11.4	11.6	56.4	10.8	5.5	4.4	56.4	0.0	0.0	4.4	55.4	57.4
Chinese Taipei	718	12.4	5.2	70.6	7.9	3.2	0.6	70.6	0.0	0.1	0.5	69.8	71.5
Cyprus	388	8.9	10.7	70.1	6.3	2.0	2.0	70.1	0.0	0.0	2.0	66.7	73.1
Czech Republic	443	5.9	9.6	76.4	4.2	1.3	2.6	76.4	0.0	0.0	2.6	76.9	75.9
England	373	6.0	9.0	77.6	5.5	1.8	0.0	77.6	0.0	0.0	0.0	77.5	77.7
Finland	367	2.9	3.0	88.9	3.3	0.7	1.2	88.9	0.0	0.0	1.2	88.0	89.8
Hong Kong, SAR	656	8.8	5.3	76.4	4.9	4.0	0.6	76.4	0.1	0.0	0.5	73.7	79.1
Hungary	400	12.8	5.6	73.9	4.8	1.5	1.3	73.9	0.0	0.3	1.0	71.7	77.5
Indonesia	737	10.2	11.3	54.9	11.6	7.5	4.5	54.9	0.2	0.0	4.3	53.5	56.3
Iran, Islamic Rep.	658	8.2	11.0	53.6	12.9	10.3	4.0	53.6	0.0	0.1	3.9	53.0	54.0
Israel	523	8.8	8.4	66.3	5.7	5.5	5.3	66.3	0.0	0.5	4.7	66.2	66.4
Italy	419	7.0	11.0	65.6	7.8	3.4	5.2	65.6	0.2	0.0	5.0	62.1	68.9
Japan	590	9.4	6.0	73.9	5.9	3.0	1.8	73.9	0.0	0.2	1.6	74.6	73.2
Jordan	638	12.1	11.5	46.8	17.5	8.2	3.9	46.8	0.9	0.0	2.9	47.7	46.0
Korea, Rep. of	764	12.8	5.1	74.0	5.4	2.3	0.4	74.0	0.0	0.0	0.4	69.1	78.8
Latvia (LSS)	357	6.0	6.9	72.2	7.0	2.0	6.0	72.2	0.0	0.2	5.8	65.9	80.1
Lithuania	299	11.1	8.2	67.6	6.5	1.3	5.4	67.6	0.0	0.0	5.4	67.1	68.1
Macedonia, Rep. of	500	9.3	10.1	54.3	11.9	4.0	10.5	54.3	0.0	0.7	9.7	50.4	58.1
Malaysia	699	12.0	4.4	69.9	7.0	4.2	2.4	69.9	0.1	0.2	2.1	69.6	70.3
Moldova	460	5.8	7.0	67.9	9.5	5.4	4.3	67.9	0.3	0.0	4.0	64.6	72.1
Morocco	695	12.8	18.2	35.7	19.2	9.7	4.5	35.7	0.0	0.1	4.4	33.4	37.1
Netherlands	368	12.3	5.4	75.2	4.5	1.9	0.8	75.2	0.2	0.2	0.3	75.1	75.5
New Zealand	447	6.1	9.1	75.6	6.5	0.9	1.8	75.6	0.2	0.2	1.4	77.5	73.4
Philippines	812	10.4	11.2	43.6	21.0	12.5	1.3	43.6	0.0	0.2	1.2	45.3	41.6
Romania	427	8.7	11.5	50.6	20.5	4.2	4.5	50.6	0.0	0.2	4.3	48.0	52.6
Russian Federation	549	8.8	8.8	68.8	3.6	2.1	7.8	68.8	0.1	0.2	7.5	63.5	74.2
Singapore	624	6.8	3.5	84.3	3.1	1.8	0.5	84.3	0.0	0.0	0.5	83.7	84.8
Slovak Republic	430	13.7	6.9	69.2	6.3	0.9	3.0	69.2	0.0	0.0	3.0	65.5	73.6
Slovenia	396	10.3	5.1	74.9	4.4	1.3	4.0	74.9	0.3	0.0	3.7	72.3	77.9
South Africa	1034	12.5	14.2	36.0	21.1	15.1	1.0	36.0	0.1	0.3	0.6	33.4	38.8
Thailand	713	8.3	13.3	62.8	9.9	4.0	1.7	62.8	0.0	0.2	1.5	61.9	63.8
Tunisia	628	8.6	12.6	64.1	8.1	4.3	2.4	64.1	0.5	0.0	1.9	62.9	65.3
Turkey	976	8.1	8.9	54.3	15.1	10.1	3.4	54.3	0.1	0.1	3.2	51.6	56.1
United States	1126	7.9	7.8	74.3	6.7	2.4	0.9	74.3	0.0	0.2	0.7	74.6	73.9
International Avg.	.	9.5	8.6	66.0	8.7	4.1	3.0	66.0	0.1	0.1	2.8	64.5	67.6

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Data Representation, Analysis and Probability  
 Label: Probability of drawing blue bead ( M022257 - K07 )  
 Item Type = MC Key = C

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	504	14.3	19.2	55.1	8.0	2.6	0.8	55.1	0.0	0.3	0.5	54.2	55.9
Belgium (Flemish)	657	10.9	8.3	74.1	4.3	2.2	0.1	74.1	0.0	0.0	0.1	76.3	72.0
Bulgaria	404	10.0	24.8	41.5	10.5	2.8	10.3	41.5	0.0	0.0	10.3	44.9	38.4
Canada	1112	18.9	16.9	44.1	8.0	11.0	1.1	44.1	0.0	0.0	1.1	40.4	47.9
Chile	744	20.2	29.6	26.8	11.4	8.2	3.9	26.8	0.0	0.0	3.9	22.2	31.9
Chinese Taipei	718	5.5	5.8	81.7	4.7	2.1	0.3	81.7	0.0	0.1	0.2	82.4	81.1
Cyprus	389	11.2	15.8	58.6	8.4	3.8	2.2	58.6	0.0	0.0	2.2	56.5	60.5
Czech Republic	443	21.6	22.9	41.8	7.5	2.7	3.5	41.8	0.0	0.0	3.5	44.4	38.7
England	373	35.3	15.0	39.0	9.0	1.4	0.5	39.0	0.0	0.0	0.5	25.3	49.9
Finland	367	17.8	21.9	49.6	7.4	2.4	0.9	49.6	0.0	0.0	0.9	47.6	51.7
Hong Kong, SAR	656	5.3	5.7	83.6	3.2	1.9	0.4	83.6	0.0	0.0	0.4	84.4	82.7
Hungary	400	22.3	17.1	45.3	8.7	1.7	5.0	45.3	0.2	0.3	4.4	47.6	42.2
Indonesia	737	22.1	16.3	39.3	13.7	6.9	1.8	39.3	0.0	0.0	1.8	38.5	40.1
Iran, Islamic Rep.	658	22.2	23.7	32.0	14.5	5.0	2.6	32.0	0.0	0.1	2.5	27.4	35.1
Israel	523	17.9	21.6	38.6	11.7	4.0	6.2	38.6	0.0	0.5	5.7	39.4	37.8
Italy	419	19.3	15.1	54.1	6.3	2.6	2.7	54.1	0.0	0.0	2.7	55.2	53.0
Japan	590	14.5	11.1	68.2	4.8	0.3	1.1	68.2	0.0	0.2	1.0	66.2	70.2
Jordan	638	20.5	20.8	38.8	9.9	7.7	2.3	38.8	0.4	0.0	1.9	37.9	39.6
Korea, Rep. of	764	13.7	6.2	76.5	2.4	1.0	0.1	76.5	0.0	0.0	0.1	77.4	75.5
Latvia (LSS)	357	24.8	21.2	35.6	9.7	2.1	6.6	35.6	0.2	0.2	6.2	31.5	40.7
Lithuania	299	27.0	22.7	29.5	11.3	3.4	6.1	29.5	0.0	0.0	6.1	32.8	25.3
Macedonia, Rep. of	500	19.6	19.3	35.3	9.3	5.4	11.1	35.3	0.0	0.7	10.3	37.3	33.3
Malaysia	699	4.0	9.1	75.4	4.0	6.6	0.7	75.4	0.0	0.2	0.6	79.2	71.1
Moldova	460	20.5	27.3	33.1	10.1	6.1	2.9	33.1	0.0	0.0	2.8	34.6	31.2
Morocco	696	22.4	23.3	23.0	16.1	11.0	4.2	23.0	0.3	0.1	3.8	20.9	24.5
Netherlands	369	14.8	17.2	61.4	3.7	1.9	1.1	61.4	0.3	0.2	0.5	54.0	70.6
New Zealand	447	23.0	23.6	43.8	6.6	1.3	1.7	43.8	0.2	0.2	1.3	41.1	47.0
Philippines	812	26.1	20.8	27.3	18.5	6.5	0.7	27.3	0.0	0.2	0.5	28.7	25.7
Romania	428	17.9	22.7	40.8	10.4	4.2	3.9	40.8	0.0	0.2	3.7	43.5	38.7
Russian Federation	549	16.7	15.9	48.6	6.4	4.2	8.1	48.6	0.2	0.2	7.8	40.4	56.8
Singapore	624	3.2	3.9	88.3	1.6	2.7	0.3	88.3	0.0	0.0	0.3	89.1	87.7
Slovak Republic	430	15.2	27.1	44.4	4.2	4.7	4.5	44.4	0.0	0.0	4.5	48.1	40.0
Slovenia	396	15.0	17.5	52.9	8.2	1.7	4.8	52.9	0.0	0.0	4.8	51.6	54.3
South Africa	1034	30.7	17.5	21.5	19.4	8.9	2.0	21.5	0.3	0.3	1.3	21.6	21.5
Thailand	713	13.6	21.3	45.9	14.2	3.1	1.9	45.9	0.0	0.2	1.6	46.8	44.8
Tunisia	628	15.8	25.5	33.2	14.2	5.8	5.5	33.2	1.1	0.0	4.4	33.5	32.9
Turkey	976	17.0	17.6	40.0	14.5	7.6	3.5	40.0	0.0	0.1	3.4	42.6	38.3
United States	1126	22.7	16.4	50.6	6.4	3.2	0.8	50.6	0.0	0.2	0.6	48.5	52.5
International Avg.	.	17.7	18.1	47.9	9.0	4.2	3.1	47.9	0.1	0.1	2.8	47.2	48.5

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Geometry  
 Label: Value of angle in congruent triangles ( M022062 - K08 )  
 Item Type = MC Key = B

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	504	36.4	47.2	7.3	3.2	4.5	1.3	47.2	0.0	0.3	1.0	44.2	50.2
Belgium (Flemish)	657	34.5	55.5	4.9	2.0	2.7	0.4	55.5	0.0	0.0	0.4	59.1	52.1
Bulgaria	404	26.4	52.0	10.6	2.7	4.7	3.7	52.0	0.2	0.3	3.2	50.1	54.0
Canada	1103	48.7	38.0	6.3	3.6	2.7	0.8	38.0	0.1	0.0	0.6	37.4	38.8
Chile	743	37.0	29.8	13.9	4.5	11.9	3.0	29.8	0.0	0.0	3.0	25.4	34.6
Chinese Taipei	718	22.8	69.3	4.2	1.4	2.2	0.1	69.3	0.0	0.1	0.0	71.1	67.6
Cyprus	389	44.9	41.6	5.8	2.1	3.8	1.7	41.6	0.0	0.0	1.7	41.6	41.6
Czech Republic	443	41.6	48.7	5.2	1.1	3.4	0.0	48.7	0.0	0.0	0.0	46.3	51.7
England	373	49.2	33.0	6.8	6.4	3.7	0.9	33.0	0.2	0.0	0.7	30.9	34.6
Finland	367	46.3	39.6	6.5	3.6	3.1	0.8	39.6	0.0	0.0	0.8	42.4	36.8
Hong Kong, SAR	656	24.3	67.9	5.1	1.6	0.7	0.4	67.9	0.2	0.0	0.2	68.4	67.4
Hungary	400	44.4	44.6	5.1	1.4	3.0	1.5	44.6	0.0	0.3	1.2	44.4	45.0
Indonesia	737	56.0	19.8	8.0	4.3	11.3	0.6	19.8	0.0	0.0	0.6	16.9	22.6
Iran, Islamic Rep.	658	37.4	40.3	10.5	5.3	5.0	1.4	40.3	0.0	0.1	1.3	37.7	42.0
Israel	523	40.9	39.1	7.9	3.6	5.0	3.6	39.1	0.0	0.7	2.9	38.6	39.5
Italy	419	43.1	31.2	13.9	3.4	5.7	2.8	31.2	0.0	0.0	2.8	30.0	32.3
Japan	590	18.0	78.0	2.4	0.8	0.5	0.3	78.0	0.0	0.2	0.2	78.1	77.8
Jordan	638	41.8	31.2	8.3	3.5	13.8	1.4	31.2	1.0	0.0	0.4	31.5	31.0
Korea, Rep. of	764	20.1	75.3	2.8	1.0	0.7	0.1	75.3	0.0	0.0	0.1	74.3	76.3
Latvia (LSS)	357	49.7	35.3	5.0	1.9	4.2	3.8	35.3	0.2	0.4	3.1	32.7	38.6
Lithuania	299	48.8	31.6	8.8	2.3	7.2	1.4	31.6	0.0	0.0	1.4	32.7	30.3
Macedonia, Rep. of	500	44.9	26.3	10.6	4.8	9.0	4.4	26.3	0.0	0.7	3.6	23.9	28.7
Malaysia	699	46.3	40.9	6.9	2.9	2.6	0.3	40.9	0.0	0.2	0.2	41.7	40.0
Moldova	460	34.8	35.0	11.5	4.8	10.7	3.2	35.0	0.2	0.0	2.9	34.1	36.1
Morocco	696	23.8	26.2	17.3	10.2	16.6	5.9	26.2	1.2	0.1	4.6	26.6	25.4
Netherlands	369	55.8	31.7	4.4	1.5	5.6	0.9	31.7	0.0	0.2	0.7	32.4	31.0
New Zealand	447	47.6	31.7	9.4	5.7	4.6	1.0	31.7	0.0	0.2	0.8	31.6	31.7
Philippines	813	50.9	17.5	8.4	4.0	18.5	0.7	17.5	0.0	0.2	0.5	15.8	19.4
Romania	427	38.4	41.6	9.8	1.4	5.4	3.4	41.6	0.0	0.2	3.2	45.5	38.5
Russian Federation	548	35.4	50.5	7.7	2.5	1.8	2.2	50.5	0.1	0.3	1.8	45.3	55.7
Singapore	624	20.0	74.9	3.1	1.1	0.7	0.2	74.9	0.0	0.0	0.2	73.8	75.8
Slovak Republic	430	41.2	48.8	4.5	2.4	2.3	0.8	48.8	0.0	0.0	0.8	47.5	50.4
Slovenia	396	42.6	38.7	8.3	3.5	4.4	2.5	38.7	0.0	0.0	2.5	39.8	37.4
South Africa	1034	37.5	13.7	14.2	5.1	27.5	2.0	13.7	0.7	0.3	0.9	12.5	15.0
Thailand	713	52.6	32.3	6.8	3.1	4.2	1.0	32.3	0.0	0.2	0.8	29.4	35.5
Tunisia	627	32.9	51.0	8.3	3.0	2.8	2.0	51.0	1.6	0.0	0.4	46.5	55.5
Turkey	976	45.8	25.8	9.9	6.0	11.4	1.1	25.8	0.0	0.1	1.0	24.6	26.5
United States	1126	56.8	22.9	9.0	4.3	6.5	0.5	22.9	0.0	0.2	0.3	16.6	28.7
International Avg.	.	40.0	41.0	7.9	3.3	6.2	1.6	41.0	0.2	0.1	1.3	40.0	42.0

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Fractions and Number Sense  
 Label: Addition of three fractions ( M022066 - K09 )  
 Item Type = MC Key = D

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	504	49.9	5.5	7.2	34.9	2.5	34.9	0.0	0.3	2.2	34.8	35.0
Belgium (Flemish)	657	10.8	3.9	3.6	81.1	0.5	81.1	0.1	0.0	0.5	86.4	76.1
Bulgaria	404	24.0	2.4	3.5	65.5	4.7	65.5	0.2	0.3	4.1	71.7	59.5
Canada	1102	32.5	4.2	5.1	57.3	0.8	57.3	0.0	0.1	0.8	62.8	51.6
Chile	743	56.0	5.0	5.8	30.4	2.7	30.4	0.0	0.0	2.7	31.3	29.4
Chinese Taipei	718	9.4	3.6	4.1	82.7	0.1	82.7	0.0	0.1	0.0	85.5	79.9
Cyprus	388	22.8	3.6	3.8	66.9	2.9	66.9	0.0	0.0	2.9	72.2	62.1
Czech Republic	443	12.6	0.6	3.9	80.9	2.1	80.9	0.4	0.0	1.7	81.7	79.9
England	373	76.5	8.4	3.0	10.6	1.5	10.6	0.0	0.0	1.5	8.7	12.1
Finland	367	42.6	7.8	10.1	37.3	2.2	37.3	0.0	0.0	2.2	43.5	31.0
Hong Kong, SAR	656	4.9	2.8	5.1	86.7	0.5	86.7	0.0	0.0	0.5	87.0	86.4
Hungary	400	10.4	1.7	3.0	83.0	1.9	83.0	0.0	0.3	1.6	84.5	81.3
Indonesia	737	55.5	4.6	5.7	33.4	0.8	33.4	0.0	0.0	0.8	34.5	32.3
Iran, Islamic Rep.	657	34.0	5.9	7.7	49.3	3.1	49.3	0.0	0.1	3.0	48.9	49.6
Israel	523	34.7	7.3	7.6	47.5	2.9	47.5	0.0	1.0	1.9	52.4	43.1
Italy	419	26.7	3.1	6.3	61.8	2.1	61.8	0.0	0.0	2.1	66.6	57.1
Japan	590	7.7	2.3	2.7	86.2	1.0	86.2	0.0	0.2	0.9	91.1	81.1
Jordan	638	39.0	8.3	9.8	40.3	2.6	40.3	1.1	0.0	1.5	46.8	34.8
Korea, Rep. of	764	10.6	2.0	3.5	83.6	0.2	83.6	0.0	0.0	0.2	85.3	82.0
Latvia (LSS)	357	23.2	4.9	5.4	63.1	3.3	63.1	0.0	0.4	2.9	69.5	55.0
Lithuania	299	30.7	1.6	5.3	58.0	4.4	58.0	0.0	0.0	4.4	66.5	47.1
Macedonia, Rep. of	500	51.5	2.7	5.0	33.1	7.8	33.1	0.0	1.0	6.8	37.6	28.5
Malaysia	699	16.1	7.3	8.5	67.4	0.8	67.4	0.0	0.2	0.6	72.1	62.1
Moldova	460	34.4	5.6	3.3	55.0	1.7	55.0	0.2	0.0	1.5	57.7	51.5
Morocco	696	57.9	14.2	8.6	12.1	7.2	12.1	0.0	0.1	7.1	13.7	11.0
Netherlands	369	31.4	4.8	11.9	48.1	3.8	48.1	0.2	0.3	3.2	45.4	51.1
New Zealand	447	69.3	8.2	5.6	15.1	1.9	15.1	0.7	0.2	1.0	16.6	13.4
Philippines	813	73.9	4.4	4.4	16.7	0.6	16.7	0.0	0.2	0.5	19.6	13.4
Romania	427	22.7	6.2	5.3	61.9	4.0	61.9	0.0	0.2	3.8	71.4	54.6
Russian Federation	548	20.6	2.9	4.3	68.5	3.7	68.5	0.6	0.3	2.9	70.0	66.9
Singapore	624	3.4	1.6	2.4	92.1	0.5	92.1	0.0	0.0	0.5	92.1	92.0
Slovak Republic	430	10.6	2.3	1.4	83.6	2.0	83.6	0.0	0.0	2.0	86.9	79.7
Slovenia	396	10.1	2.8	2.7	82.8	1.7	82.8	0.4	0.0	1.3	87.0	78.0
South Africa	1034	76.7	5.0	6.6	9.4	2.2	9.4	0.4	0.3	1.5	7.6	11.3
Thailand	713	51.9	6.0	8.4	32.5	1.3	32.5	0.0	0.2	1.1	35.3	29.2
Tunisia	628	22.1	7.2	13.2	54.9	2.6	54.9	0.6	0.0	2.0	54.3	55.6
Turkey	976	34.9	5.9	6.4	51.4	1.4	51.4	0.0	0.1	1.3	54.5	49.3
United States	1126	37.0	5.2	5.6	51.1	1.1	51.1	0.0	0.2	0.9	52.9	49.4
International Avg.	.	32.6	4.8	5.7	54.6	2.3	54.6	0.1	0.2	2.0	57.5	51.7

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Fractions and Number Sense  
 Label: Length of building compared to car ( M022070 - L09 )  
 Item Type = MC Key = B

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	501	7.4	83.0	8.3	1.2	0.1	83.0	0.0	0.1	0.0	83.5	82.4
Belgium (Flemish)	657	4.8	84.8	10.1	0.2	0.2	84.8	0.2	0.0	0.0	83.2	86.4
Bulgaria	406	5.3	82.7	8.4	2.1	1.4	82.7	0.0	0.3	1.0	81.8	83.8
Canada	1095	8.5	79.1	11.0	1.3	0.2	79.1	0.0	0.0	0.2	81.1	77.3
Chile	727	18.2	60.1	15.0	5.6	1.1	60.1	0.0	0.2	0.9	54.3	65.3
Chinese Taipei	732	5.9	87.2	5.3	1.4	0.2	87.2	0.0	0.0	0.2	86.7	87.7
Cyprus	387	12.5	70.9	13.6	2.0	0.9	70.9	0.0	0.3	0.6	64.7	78.3
Czech Republic	438	3.2	88.7	6.8	1.4	0.0	88.7	0.0	0.0	0.0	87.0	90.7
England	363	8.2	76.4	12.8	2.3	0.3	76.4	0.0	0.3	0.0	72.8	79.6
Finland	362	3.8	87.2	8.7	0.0	0.3	87.2	0.0	0.0	0.3	87.6	86.8
Hong Kong, SAR	648	4.7	83.3	9.8	1.6	0.7	83.3	0.0	0.2	0.5	84.8	81.8
Hungary	400	3.1	88.3	7.3	1.3	0.0	88.3	0.0	0.0	0.0	87.3	90.2
Indonesia	724	16.3	58.9	17.6	6.4	0.9	58.9	0.1	0.0	0.7	54.0	63.6
Iran, Islamic Rep.	659	16.0	61.0	19.5	3.2	0.3	61.0	0.0	0.1	0.2	52.1	67.2
Israel	523	11.2	67.5	14.7	4.4	2.2	67.5	0.0	0.5	1.7	61.5	73.4
Italy	407	12.7	72.7	11.4	1.8	1.4	72.7	0.0	0.3	1.1	65.5	80.9
Japan	604	5.9	84.4	8.6	1.1	0.0	84.4	0.0	0.0	0.0	84.0	84.7
Jordan	621	10.5	56.3	21.7	10.7	0.9	56.3	0.0	0.2	0.7	53.7	58.5
Korea, Rep. of	764	6.2	87.2	5.7	0.9	0.0	87.2	0.0	0.0	0.0	84.8	89.4
Latvia (LSS)	367	4.4	85.5	8.4	1.2	0.5	85.5	0.5	0.0	0.0	84.4	86.8
Lithuania	305	4.1	86.9	7.8	0.5	0.6	86.9	0.0	0.6	0.0	82.5	91.9
Macedonia, Rep. of	509	12.7	69.3	10.9	5.7	1.4	69.3	0.0	0.4	1.0	67.7	70.8
Malaysia	698	2.8	89.9	6.1	0.6	0.6	89.9	0.0	0.0	0.6	91.3	88.2
Moldova	468	9.7	75.0	10.5	3.6	1.1	75.0	0.6	0.0	0.5	68.4	82.2
Morocco	671	20.5	43.3	15.4	17.4	3.4	43.3	3.0	0.0	0.4	38.3	47.0
Netherlands	376	8.4	81.8	8.8	0.8	0.3	81.8	0.0	0.0	0.3	85.7	77.8
New Zealand	457	9.0	77.6	10.9	2.0	0.5	77.6	0.0	0.3	0.2	76.4	78.7
Philippines	802	24.8	40.2	18.1	16.3	0.5	40.2	0.0	0.0	0.5	37.0	43.9
Romania	419	11.3	76.1	10.1	1.8	0.7	76.1	0.0	0.2	0.5	72.8	79.1
Russian Federation	545	4.8	87.7	5.1	1.2	1.3	87.7	0.2	0.2	0.9	86.2	89.3
Singapore	607	3.9	91.3	4.6	0.2	0.0	91.3	0.0	0.0	0.0	91.8	90.7
Slovak Republic	433	3.6	88.4	6.3	1.4	0.3	88.4	0.0	0.0	0.3	87.1	89.6
Slovenia	393	5.3	81.6	10.1	2.5	0.5	81.6	0.0	0.0	0.5	80.5	82.9
South Africa	1029	38.3	26.4	18.4	15.8	1.0	26.4	0.2	0.2	0.6	23.1	30.0
Thailand	715	11.0	73.2	11.7	4.0	0.1	73.2	0.0	0.0	0.1	74.5	71.7
Tunisia	634	11.6	69.7	13.6	4.3	0.8	69.7	0.0	0.0	0.8	63.0	77.3
Turkey	976	10.7	68.0	15.6	4.9	0.7	68.0	0.0	0.2	0.5	61.5	72.3
United States	1129	12.1	72.3	13.5	1.8	0.3	72.3	0.0	0.1	0.2	69.9	75.0
International Avg.	.	9.8	74.8	11.1	3.6	0.7	74.8	0.1	0.1	0.4	72.4	77.2

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Fractions and Number Sense  
 Label: Two hundred six and nine-tenths ( M022073 - L10 )  
 Item Type = MC Key = B

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	501	25.9	67.2	5.2	1.6	0.1	67.2	0.0	0.1	0.0	64.2	70.5
Belgium (Flemish)	657	10.5	87.2	1.2	1.2	0.0	87.2	0.0	0.0	0.0	80.6	93.8
Bulgaria	406	14.7	70.7	10.3	1.5	2.8	70.7	0.2	0.5	2.1	69.5	71.9
Canada	1095	17.3	77.1	4.6	1.0	0.0	77.1	0.0	0.0	0.0	73.5	80.4
Chile	727	21.2	60.4	15.8	1.6	1.0	60.4	0.0	0.2	0.8	64.7	56.4
Chinese Taipei	732	22.6	72.0	3.4	1.9	0.1	72.0	0.0	0.0	0.1	70.3	73.6
Cyprus	386	28.4	53.7	15.0	2.0	0.8	53.7	0.2	0.3	0.4	51.7	56.0
Czech Republic	438	23.7	74.9	0.8	0.0	0.7	74.9	0.0	0.0	0.7	76.1	73.4
England	363	28.8	53.2	15.8	1.9	0.3	53.2	0.0	0.3	0.0	49.3	56.8
Finland	362	24.7	70.0	4.1	0.2	1.0	70.0	0.0	0.0	1.0	63.5	77.9
Hong Kong, SAR	648	25.6	67.8	3.2	2.4	1.0	67.8	0.2	0.2	0.7	65.1	70.4
Hungary	400	2.0	96.9	0.9	0.0	0.2	96.9	0.0	0.0	0.2	97.8	96.0
Indonesia	724	26.5	22.8	49.1	1.0	0.6	22.8	0.0	0.0	0.6	22.8	22.8
Iran, Islamic Rep.	659	7.0	82.9	2.1	7.7	0.5	82.9	0.0	0.1	0.4	83.5	82.4
Israel	523	25.6	62.4	6.8	2.8	2.4	62.4	0.4	0.5	1.5	61.0	63.8
Italy	407	8.8	65.8	13.2	10.0	2.2	65.8	0.0	0.3	1.9	66.4	65.1
Japan	604	31.9	61.9	3.6	2.3	0.3	61.9	0.1	0.0	0.2	60.2	63.4
Jordan	621	8.4	74.8	7.2	8.8	0.7	74.8	0.0	0.2	0.5	77.9	72.2
Korea, Rep. of	764	14.7	78.3	5.2	1.7	0.1	78.3	0.0	0.0	0.1	77.0	79.5
Latvia (LSS)	368	27.0	55.2	16.3	0.7	0.8	55.2	0.5	0.0	0.3	51.3	59.4
Lithuania	305	18.6	73.2	6.7	0.9	0.6	73.2	0.0	0.6	0.0	72.4	74.0
Macedonia, Rep. of	509	24.6	42.3	28.8	2.3	2.0	42.3	0.2	0.4	1.4	42.8	41.8
Malaysia	698	23.4	55.9	20.1	0.5	0.1	55.9	0.0	0.0	0.1	55.9	55.8
Moldova	468	11.0	81.2	4.3	2.7	0.9	81.2	0.4	0.3	0.2	81.9	80.4
Morocco	671	20.7	41.1	27.6	5.0	5.5	41.1	4.8	0.0	0.8	38.2	43.2
Netherlands	376	17.4	78.6	1.9	1.9	0.3	78.6	0.0	0.0	0.3	75.0	82.2
New Zealand	457	23.5	53.1	20.2	2.5	0.8	53.1	0.3	0.3	0.2	55.4	51.1
Philippines	802	37.2	41.9	18.3	2.0	0.5	41.9	0.0	0.0	0.5	42.2	41.7
Romania	419	17.6	70.6	8.4	2.4	1.1	70.6	0.1	0.2	0.7	69.1	71.9
Russian Federation	545	3.9	93.1	1.4	1.5	0.2	93.1	0.0	0.2	0.0	94.8	91.3
Singapore	607	20.0	72.1	7.3	0.5	0.1	72.1	0.0	0.0	0.1	68.4	75.9
Slovak Republic	433	6.9	90.0	1.6	1.2	0.3	90.0	0.3	0.0	0.0	92.7	87.3
Slovenia	393	23.5	61.0	14.1	0.8	0.7	61.0	0.2	0.0	0.5	64.0	57.6
South Africa	1029	14.4	31.0	43.7	9.4	1.5	31.0	0.3	0.2	1.0	31.5	30.5
Thailand	715	35.7	40.1	23.0	1.2	0.0	40.1	0.0	0.0	0.0	40.6	39.5
Tunisia	634	21.6	43.4	30.4	2.8	1.7	43.4	0.6	0.0	1.1	42.7	44.2
Turkey	976	20.1	72.4	3.6	2.2	1.6	72.4	0.0	0.2	1.4	74.0	71.4
United States	1129	14.0	79.8	5.1	1.0	0.2	79.8	0.0	0.1	0.1	77.7	82.0
International Avg.	.	19.7	65.2	11.8	2.4	0.9	65.2	0.2	0.1	0.5	64.4	66.0

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Data Representation, Analysis and Probability  
 Label: Graph of humidity in room ( M022258 - L11 )  
 Item Type = MC Key = C

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	501	3.6	21.3	72.0	3.0	0.1	72.0	0.0	0.1	0.0	71.6	72.5
Belgium (Flemish)	657	4.3	22.8	71.6	1.3	0.0	71.6	0.0	0.0	0.0	62.4	80.8
Bulgaria	406	7.5	19.7	64.2	6.2	2.5	64.2	0.0	0.8	1.7	67.6	60.3
Canada	1095	3.2	25.4	68.3	3.0	0.0	68.3	0.0	0.0	0.0	65.8	70.7
Chile	727	8.2	29.8	46.5	12.7	2.8	46.5	0.0	0.2	2.7	42.2	50.3
Chinese Taipei	732	1.7	22.0	73.3	2.3	0.6	73.3	0.0	0.0	0.6	71.8	74.7
Cyprus	387	5.0	32.4	56.8	4.9	0.9	56.8	0.0	0.3	0.6	57.7	55.7
Czech Republic	438	4.6	23.6	62.8	8.1	0.9	62.8	0.0	0.7	0.2	60.1	66.0
England	363	4.9	23.8	68.1	2.5	0.7	68.1	0.0	0.3	0.4	65.6	70.4
Finland	362	2.6	16.4	78.8	1.9	0.3	78.8	0.0	0.0	0.3	79.8	77.5
Hong Kong, SAR	648	2.2	28.0	67.5	2.0	0.3	67.5	0.0	0.2	0.1	67.3	67.8
Hungary	400	3.0	26.5	68.7	1.2	0.6	68.7	0.0	0.0	0.6	66.7	71.2
Indonesia	724	8.4	41.2	30.2	19.5	0.7	30.2	0.0	0.0	0.7	27.8	32.5
Iran, Islamic Rep.	659	7.1	29.7	50.8	12.0	0.4	50.8	0.0	0.1	0.3	47.0	53.4
Israel	523	4.1	27.9	60.4	4.9	2.8	60.4	0.0	0.7	2.1	59.3	61.5
Italy	.	.	.	.	.	.	.	.	.	.	.	.
Japan	604	1.1	20.8	76.4	1.6	0.0	76.4	0.0	0.0	0.0	74.4	78.3
Jordan	626	8.3	30.7	43.4	16.2	1.4	43.4	0.0	0.2	1.2	36.7	49.1
Korea, Rep. of	764	6.5	23.5	68.5	1.2	0.3	68.5	0.0	0.0	0.3	65.8	71.1
Latvia (LSS)	368	7.2	23.2	65.2	4.2	0.2	65.2	0.0	0.0	0.2	68.0	62.3
Lithuania	305	5.4	23.5	63.9	4.4	2.8	63.9	0.0	0.6	2.2	65.4	62.3
Macedonia, Rep. of	509	11.4	35.4	43.0	4.9	5.3	43.0	0.2	0.4	4.7	43.1	42.9
Malaysia	698	5.4	31.1	60.5	2.9	0.0	60.5	0.0	0.0	0.0	53.9	69.0
Moldova	468	10.7	34.6	39.3	13.5	1.8	39.3	0.6	0.3	1.0	35.4	43.6
Morocco	670	12.4	33.0	30.9	18.6	5.1	30.9	4.7	0.0	0.5	35.8	27.3
Netherlands	376	4.9	16.7	75.9	1.2	1.3	75.9	0.0	0.0	1.3	69.1	82.7
New Zealand	457	2.5	28.5	61.6	6.7	0.7	61.6	0.0	0.3	0.5	52.0	70.0
Philippines	802	7.2	33.0	34.1	25.2	0.4	34.1	0.0	0.0	0.4	29.7	39.6
Romania	419	10.4	38.4	41.2	6.9	3.0	41.2	0.2	0.2	2.5	42.3	40.3
Russian Federation	545	6.4	25.8	62.7	3.2	1.8	62.7	0.0	0.2	1.7	62.6	62.8
Singapore	607	4.9	23.0	68.4	3.2	0.4	68.4	0.0	0.0	0.4	65.4	71.6
Slovak Republic	433	5.2	26.2	66.0	2.0	0.6	66.0	0.0	0.0	0.6	69.1	63.0
Slovenia	393	9.2	36.9	47.5	5.3	1.1	47.5	0.0	0.0	1.1	50.7	43.9
South Africa	1029	9.4	29.1	28.7	31.4	1.3	28.7	0.4	0.4	0.5	28.2	29.3
Thailand	715	4.7	42.7	44.5	7.7	0.4	44.5	0.0	0.0	0.4	42.0	47.5
Tunisia	634	6.7	29.4	57.6	5.4	1.0	57.6	0.3	0.0	0.7	52.5	63.4
Turkey	976	6.3	31.3	48.8	11.6	2.1	48.8	0.0	0.2	1.9	51.0	47.2
United States	1129	4.5	28.6	63.5	3.1	0.3	63.5	0.0	0.1	0.2	59.7	67.7
International Avg.	.	6.0	28.0	57.6	7.2	1.2	57.6	0.2	0.2	0.9	55.8	59.5

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Algebra  
 Label: Distance traveled by elevator ( M022078 - L12 )  
 Item Type = MC Key = C

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	501	9.1	15.3	69.4	5.8	0.4	69.4	0.0	0.1	0.3	69.9	68.8
Belgium (Flemish)	657	9.2	12.0	70.0	8.4	0.4	70.0	0.1	0.0	0.3	71.7	68.3
Bulgaria	406	23.6	36.4	21.1	10.5	8.4	21.1	0.3	0.8	7.2	18.0	24.5
Canada	1095	17.4	12.7	60.4	9.1	0.4	60.4	0.0	0.0	0.4	62.3	58.7
Chile	727	24.2	18.6	39.0	15.3	2.9	39.0	0.0	0.6	2.3	37.7	40.2
Chinese Taipei	732	5.3	12.5	71.9	10.0	0.3	71.9	0.0	0.0	0.3	72.0	71.9
Cyprus	387	15.4	19.6	51.5	12.0	1.5	51.5	0.0	0.3	1.2	46.8	57.2
Czech Republic	438	8.8	13.2	66.2	10.0	1.8	66.2	0.1	0.7	1.0	65.5	67.1
England	363	17.3	16.8	57.1	8.0	0.8	57.1	0.0	0.3	0.5	55.9	58.3
Finland	362	6.4	11.6	71.8	9.1	1.1	71.8	0.0	0.0	1.1	70.4	73.6
Hong Kong, SAR	648	7.3	13.2	71.8	7.3	0.3	71.8	0.0	0.2	0.1	71.0	72.6
Hungary	400	14.9	15.3	60.8	7.8	1.2	60.8	0.0	0.0	1.2	64.2	57.4
Indonesia	724	23.7	11.0	36.8	25.9	2.6	36.8	0.2	0.0	2.5	35.9	37.6
Iran, Islamic Rep.	659	25.8	21.4	38.4	12.8	1.7	38.4	0.0	0.1	1.6	33.2	42.0
Israel	523	28.9	22.2	38.7	6.6	3.6	38.7	0.0	1.2	2.4	34.2	43.0
Italy	407	19.1	16.0	50.7	11.4	2.8	50.7	0.0	0.5	2.2	46.3	55.7
Japan	604	5.3	10.7	74.3	9.6	0.2	74.3	0.0	0.0	0.2	72.7	75.7
Jordan	626	20.7	22.3	39.5	15.8	1.8	39.5	0.2	0.2	1.5	32.6	45.4
Korea, Rep. of	764	5.5	9.0	77.5	7.9	0.1	77.5	0.0	0.0	0.1	75.1	79.7
Latvia (LSS)	368	15.0	17.2	54.6	10.0	3.2	54.6	0.2	0.0	2.9	55.4	53.8
Lithuania	305	12.6	14.2	59.7	8.9	4.6	59.7	0.0	0.6	4.0	55.9	63.9
Macedonia, Rep. of	509	19.0	15.3	44.7	12.7	8.3	44.7	0.0	0.6	7.7	41.3	47.9
Malaysia	698	7.4	10.4	63.2	18.2	0.9	63.2	0.0	0.0	0.9	61.5	65.4
Moldova	468	16.0	19.0	48.5	13.5	2.9	48.5	0.7	0.3	1.9	43.2	54.3
Morocco	670	30.7	18.3	31.6	12.9	6.5	31.6	4.1	0.0	2.4	31.6	31.6
Netherlands	376	18.4	16.6	57.8	6.1	1.0	57.8	0.0	0.8	0.2	59.4	56.3
New Zealand	457	15.7	16.1	59.0	8.0	1.2	59.0	0.0	0.3	0.9	65.5	53.4
Philippines	802	34.1	22.3	25.7	16.2	1.8	25.7	0.5	0.0	1.3	26.6	24.4
Romania	419	21.1	20.1	41.8	12.0	4.9	41.8	0.0	0.2	4.7	41.5	42.1
Russian Federation	545	12.3	16.7	58.7	8.2	4.1	58.7	0.3	0.2	3.7	53.0	64.8
Singapore	607	9.1	13.9	69.1	7.9	0.0	69.1	0.0	0.0	0.0	66.8	71.5
Slovak Republic	433	11.1	14.4	62.4	9.5	2.7	62.4	0.0	0.0	2.7	62.2	62.5
Slovenia	393	13.3	16.2	58.3	9.4	2.8	58.3	0.3	0.0	2.5	53.3	63.8
South Africa	1029	25.1	18.9	32.9	21.2	1.8	32.9	0.2	0.4	1.3	34.0	31.7
Thailand	715	19.9	18.6	37.6	22.5	1.4	37.6	0.1	0.0	1.3	35.0	40.7
Tunisia	634	22.8	19.2	44.1	12.3	1.6	44.1	0.0	0.0	1.6	40.1	48.6
Turkey	976	18.8	18.1	43.4	17.1	2.6	43.4	0.0	0.2	2.4	30.7	51.9
United States	1129	17.2	17.1	54.6	10.4	0.7	54.6	0.2	0.1	0.5	55.9	53.1
International Avg.	.	16.5	16.6	53.0	11.6	2.2	53.0	0.2	0.2	1.8	51.3	54.7

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent



Mathematics: Measurement  
 Label: Most paces to walk to end of hallway ( M022079 - L13 )  
 Item Type = MC Key = D

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	501	14.1	4.7	1.7	79.1	0.4	79.1	0.0	0.1	0.2	79.9	78.2
Belgium (Flemish)	657	1.3	4.4	0.3	94.0	0.0	94.0	0.0	0.0	0.0	91.8	96.3
Bulgaria	406	26.3	4.9	1.8	65.2	1.8	65.2	0.0	0.8	1.0	65.9	64.3
Canada	1095	19.7	3.6	0.2	76.5	0.1	76.5	0.0	0.0	0.1	73.9	78.8
Chile	727	10.1	6.4	1.4	80.8	1.3	80.8	0.0	0.7	0.6	79.6	81.8
Chinese Taipei	732	13.7	3.4	1.0	81.3	0.5	81.3	0.0	0.0	0.5	79.6	83.1
Cyprus	387	22.4	5.0	2.1	69.6	0.9	69.6	0.3	0.3	0.3	67.4	72.3
Czech Republic	437	8.5	8.4	1.1	81.3	0.7	81.3	0.0	0.7	0.0	79.9	82.9
England	363	19.2	5.8	0.7	73.7	0.6	73.7	0.0	0.6	0.0	72.1	75.1
Finland	362	5.5	3.9	0.5	90.1	0.0	90.1	0.0	0.0	0.0	89.7	90.5
Hong Kong, SAR	648	19.4	4.0	1.4	74.9	0.3	74.9	0.0	0.2	0.2	71.1	78.6
Hungary	400	2.5	6.1	0.3	90.7	0.3	90.7	0.0	0.0	0.3	90.6	91.3
Indonesia	724	67.7	4.1	1.3	26.8	0.1	26.8	0.0	0.0	0.1	21.6	31.7
Iran, Islamic Rep.	659	46.4	1.9	3.4	48.0	0.4	48.0	0.0	0.1	0.3	39.2	54.1
Israel	523	22.8	4.6	3.7	66.9	2.0	66.9	0.0	1.2	0.8	64.5	69.3
Italy	407	18.6	3.8	1.2	75.4	1.0	75.4	0.0	0.5	0.5	74.0	76.9
Japan	604	12.8	1.0	0.2	86.0	0.0	86.0	0.0	0.0	0.0	85.7	86.2
Jordan	625	16.9	5.1	2.3	75.3	0.4	75.3	0.0	0.2	0.3	74.2	76.2
Korea, Rep. of	764	23.8	3.2	0.7	72.2	0.1	72.2	0.0	0.0	0.1	69.3	74.9
Latvia (LSS)	368	6.8	10.6	1.3	81.4	0.0	81.4	0.0	0.0	0.0	82.1	80.7
Lithuania	305	6.6	8.0	0.0	83.9	1.5	83.9	0.0	0.9	0.7	83.2	84.6
Macedonia, Rep. of	509	30.3	7.2	2.7	56.5	3.4	56.5	0.4	0.6	2.3	56.0	56.8
Malaysia	698	46.1	3.0	1.0	49.8	0.1	49.8	0.0	0.0	0.1	44.9	56.1
Moldova	468	23.9	7.5	2.0	65.7	0.9	65.7	0.4	0.3	0.2	62.0	69.8
Morocco	670	71.4	1.8	3.2	20.0	3.5	20.0	3.3	0.0	0.2	15.1	23.6
Netherlands	376	0.8	6.7	0.6	89.8	2.1	89.8	0.8	0.8	0.5	94.3	85.4
New Zealand	457	25.7	4.8	1.3	67.9	0.3	67.9	0.0	0.3	0.0	65.3	70.1
Philippines	802	70.3	5.2	4.6	19.7	0.1	19.7	0.0	0.0	0.1	19.8	19.6
Romania	419	23.6	5.4	0.8	68.2	2.0	68.2	0.2	0.9	1.0	62.9	72.9
Russian Federation	545	14.4	6.8	0.1	77.1	1.6	77.1	0.0	0.6	1.0	76.3	78.0
Singapore	607	31.6	5.6	1.0	61.8	0.0	61.8	0.0	0.0	0.0	57.7	66.0
Slovak Republic	433	12.9	5.8	0.3	81.0	0.0	81.0	0.0	0.0	0.0	81.9	80.1
Slovenia	393	11.5	8.7	0.6	79.0	0.2	79.0	0.0	0.0	0.2	78.4	79.7
South Africa	1029	57.4	9.2	8.8	23.1	1.5	23.1	0.7	0.6	0.3	19.5	27.1
Thailand	715	37.3	6.4	2.2	54.1	0.0	54.1	0.0	0.0	0.0	51.0	57.9
Tunisia	634	28.8	1.4	2.0	67.2	0.6	67.2	0.1	0.0	0.4	59.1	76.5
Turkey	976	44.8	5.7	3.2	45.5	0.8	45.5	0.1	0.2	0.5	39.9	49.2
United States	1129	36.6	4.7	1.7	56.6	0.5	56.6	0.0	0.2	0.3	50.9	62.8
International Avg.	.	25.1	5.2	1.6	67.3	0.8	67.3	0.2	0.3	0.3	65.0	69.5

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Algebra  
 Label: Correct equation based on x/y table ( M022042 - L14 )  
 Item Type = MC Key = E

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	501	6.9	8.0	12.3	6.7	64.0	2.0	64.0	0.2	0.1	1.7	64.4	63.5
Belgium (Flemish)	657	6.6	6.2	7.6	6.5	67.3	5.6	67.3	0.4	0.0	5.2	69.6	65.0
Bulgaria	406	11.4	12.5	10.9	11.3	44.0	9.9	44.0	1.5	0.8	7.6	44.3	43.6
Canada	1095	10.2	10.4	14.2	10.9	53.1	1.1	53.1	0.5	0.0	0.7	54.8	51.6
Chile	727	15.8	17.5	23.4	20.3	12.4	10.6	12.4	0.0	0.9	9.7	9.4	15.2
Chinese Taipei	732	6.4	7.5	5.9	4.6	75.0	0.4	75.0	0.0	0.0	0.4	78.1	72.0
Cyprus	386	21.7	15.5	21.9	13.3	23.6	4.0	23.6	0.0	0.3	3.7	25.6	21.1
Czech Republic	437	11.1	10.8	10.1	12.8	50.0	5.2	50.0	0.6	0.7	4.0	53.5	45.8
England	363	12.5	13.1	13.5	6.2	51.3	3.4	51.3	1.5	0.6	1.4	46.0	56.1
Finland	362	15.6	14.3	18.3	14.2	32.0	5.6	32.0	0.0	0.0	5.6	29.8	34.7
Hong Kong, SAR	648	4.1	6.8	7.9	6.5	74.3	0.3	74.3	0.0	0.2	0.2	73.4	75.1
Hungary	400	5.8	4.4	6.6	5.0	75.4	2.8	75.4	1.0	0.0	1.8	79.9	71.3
Indonesia	724	31.0	16.2	11.7	12.0	27.1	2.1	27.1	0.0	0.0	2.1	24.1	29.9
Iran, Islamic Rep.	659	18.5	16.4	21.4	18.4	21.7	3.6	21.7	0.0	0.1	3.5	26.3	18.5
Israel	523	13.1	11.4	14.7	10.5	41.2	9.1	41.2	0.7	1.2	7.2	38.4	43.9
Italy	407	13.9	12.9	15.5	9.5	38.6	9.6	38.6	0.0	1.0	8.6	39.0	38.1
Japan	604	9.7	7.8	6.9	6.0	69.5	0.2	69.5	0.0	0.0	0.2	69.6	69.4
Jordan	625	10.6	11.6	17.0	10.9	47.7	2.1	47.7	0.2	0.2	1.8	54.8	41.5
Korea, Rep. of	764	3.5	3.2	5.9	7.6	79.7	0.1	79.7	0.0	0.0	0.1	81.4	78.1
Latvia (LSS)	368	15.5	9.1	14.6	7.4	45.4	8.1	45.4	0.7	0.0	7.4	48.8	41.8
Lithuania	305	22.2	10.3	9.1	10.6	36.3	11.5	36.3	0.0	0.9	10.6	35.0	37.6
Macedonia, Rep. of	509	9.2	12.3	10.1	11.8	47.9	8.7	47.9	0.7	1.1	6.9	51.7	44.4
Malaysia	698	20.8	11.9	11.9	11.8	41.0	2.6	41.0	0.0	0.0	2.6	41.9	39.9
Moldova	468	21.1	17.8	14.5	9.9	32.7	4.0	32.7	1.5	0.3	2.2	28.4	37.2
Morocco	669	23.5	15.8	23.0	11.8	13.6	12.3	13.6	4.5	0.2	7.5	14.6	12.9
Netherlands	376	7.7	8.7	11.3	4.5	63.8	3.9	63.8	0.2	0.8	2.9	69.5	58.0
New Zealand	457	11.1	14.1	15.4	9.7	48.6	1.1	48.6	0.4	0.3	0.4	51.8	45.8
Philippines	802	25.8	19.5	23.0	17.2	13.4	1.2	13.4	0.3	0.0	0.9	15.6	10.7
Romania	419	13.2	11.8	19.7	11.3	34.8	9.2	34.8	3.4	0.9	4.9	34.9	34.8
Russian Federation	545	7.9	8.5	9.5	5.4	60.6	8.2	60.6	0.0	1.2	7.0	60.7	60.4
Singapore	607	7.3	7.9	6.1	4.0	74.4	0.2	74.4	0.0	0.0	0.2	76.3	72.5
Slovak Republic	433	11.6	9.9	8.8	8.3	55.6	5.8	55.6	0.6	0.0	5.2	60.8	50.4
Slovenia	393	12.1	12.4	10.3	7.6	54.2	3.5	54.2	0.2	0.0	3.3	54.1	54.2
South Africa	1029	24.5	20.1	23.8	14.3	13.8	3.4	13.8	1.6	0.6	1.3	14.2	13.4
Thailand	715	25.1	15.8	18.3	16.3	24.1	0.4	24.1	0.0	0.0	0.4	25.8	22.1
Tunisia	634	15.0	11.5	19.9	10.5	33.5	9.6	33.5	4.8	0.3	4.5	34.0	32.9
Turkey	976	18.5	14.8	24.1	15.7	21.5	5.4	21.5	0.4	0.2	4.8	18.8	23.3
United States	1129	10.9	13.0	14.2	11.9	48.7	1.3	48.7	0.1	0.2	1.0	47.5	50.1
International Avg.	.	14.0	11.9	14.0	10.4	45.0	4.7	45.0	0.7	0.3	3.7	46.0	44.1

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Algebra  
 Label: Values in proportionality table ( M022083 - L15 )  
 Item Type = MC Key = E

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	501	10.5	17.3	23.8	8.9	32.6	6.8	32.6	0.0	0.1	6.7	29.7	35.7
Belgium (Flemish)	657	7.8	11.5	16.0	8.1	49.2	7.5	49.2	0.4	0.0	7.1	46.8	51.7
Bulgaria	406	8.7	12.8	19.4	12.8	31.7	14.6	31.7	0.4	1.2	12.9	31.8	31.6
Canada	1095	11.1	17.4	19.4	11.6	38.2	2.3	38.2	0.2	0.1	1.9	36.9	39.4
Chile	727	11.7	16.0	25.0	20.0	15.2	12.1	15.2	0.0	1.1	10.9	14.8	15.6
Chinese Taipei	732	6.8	8.4	9.3	6.2	68.6	0.7	68.6	0.0	0.1	0.5	69.6	67.6
Cyprus	383	9.2	13.1	28.9	17.8	25.7	5.3	25.7	0.0	0.3	5.0	27.0	24.2
Czech Republic	438	13.2	14.2	22.5	8.0	27.9	14.2	27.9	1.2	0.7	12.4	25.2	31.0
England	363	15.4	16.8	20.4	14.0	27.6	5.8	27.6	0.6	0.6	4.6	24.8	30.2
Finland	362	12.3	19.0	27.6	12.9	20.9	7.2	20.9	0.0	0.0	7.2	23.5	17.8
Hong Kong, SAR	648	6.6	12.5	20.0	7.7	51.4	1.7	51.4	0.2	0.2	1.4	47.3	55.3
Hungary	400	11.3	14.5	13.6	8.9	38.0	13.8	38.0	0.8	0.0	13.0	40.0	35.6
Indonesia	724	18.1	16.3	16.3	16.3	29.1	4.0	29.1	0.1	0.0	3.8	28.7	29.4
Iran, Islamic Rep.	659	15.0	12.9	22.3	19.0	23.7	7.0	23.7	0.0	0.1	6.9	23.7	23.7
Israel	523	12.8	14.1	23.9	12.0	20.1	17.1	20.1	0.2	1.5	15.4	18.3	21.9
Italy	407	9.4	13.1	21.7	12.9	27.9	15.1	27.9	0.0	1.6	13.5	27.7	28.2
Japan	604	4.8	14.0	13.7	4.9	61.7	1.0	61.7	0.0	0.0	1.0	63.1	60.3
Jordan	626	12.2	15.6	17.0	13.3	36.7	5.3	36.7	0.9	0.4	4.1	37.6	35.9
Korea, Rep. of	764	6.3	10.6	19.2	8.5	54.3	1.0	54.3	0.5	0.0	0.5	53.3	55.3
Latvia (LSS)	368	13.1	16.4	18.6	13.4	22.9	15.6	22.9	0.0	1.0	14.5	23.4	22.3
Lithuania	305	13.6	13.9	14.3	9.9	26.1	22.2	26.1	0.0	0.9	21.3	25.3	26.9
Macedonia, Rep. of	509	12.8	12.6	19.0	12.9	22.7	20.0	22.7	0.3	2.5	17.2	24.8	20.8
Malaysia	698	10.2	13.4	20.6	9.8	42.9	3.1	42.9	0.0	0.0	3.1	45.7	39.3
Moldova	468	14.3	18.0	19.7	14.2	26.0	7.8	26.0	1.7	1.1	5.0	25.7	26.4
Morocco	670	13.1	16.6	23.4	15.0	17.3	14.5	17.3	4.7	0.4	9.4	18.1	16.8
Netherlands	376	7.1	17.3	14.8	7.9	49.1	3.9	49.1	0.2	0.8	2.9	46.0	52.1
New Zealand	457	9.9	23.2	26.3	12.6	24.5	3.6	24.5	0.0	0.3	3.3	26.0	23.1
Philippines	802	16.8	20.0	21.6	19.1	20.7	1.8	20.7	0.1	0.1	1.6	21.2	20.2
Romania	419	8.1	14.5	21.7	11.3	34.4	10.0	34.4	0.9	1.9	7.3	38.0	31.1
Russian Federation	545	11.2	10.4	13.3	7.9	43.2	14.0	43.2	0.2	1.5	12.3	41.7	44.8
Singapore	607	8.0	12.2	15.5	5.4	57.4	1.6	57.4	0.0	0.0	1.6	57.6	57.1
Slovak Republic	433	10.9	10.0	16.1	9.6	38.4	15.0	38.4	0.0	0.0	15.0	42.1	34.7
Slovenia	393	10.6	16.4	19.3	9.8	34.4	9.4	34.4	0.0	0.0	9.4	34.3	34.5
South Africa	1029	14.8	16.9	22.0	21.3	21.4	3.5	21.4	1.2	0.9	1.4	20.5	22.4
Thailand	715	16.5	18.4	20.5	13.9	29.8	0.9	29.8	0.2	0.0	0.7	29.7	29.8
Tunisia	634	19.5	14.0	24.8	16.7	14.7	10.4	14.7	1.5	0.3	8.6	12.1	17.6
Turkey	976	13.1	16.0	20.4	17.4	23.9	9.2	23.9	0.0	0.3	8.9	23.7	24.0
United States	1129	12.5	15.7	22.0	13.8	34.4	1.5	34.4	0.1	0.3	1.1	30.2	38.9
International Avg.	.	11.6	14.9	19.8	12.3	33.3	8.2	33.3	0.4	0.5	7.2	33.1	33.5

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Geometry  
 Label: Measure of angle in quadrilateral ( M022085 - L16 )  
 Item Type = MC Key = A

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	501	36.1	15.1	3.6	3.6	40.6	1.0	36.1	0.2	0.1	0.6	32.8	39.7
Belgium (Flemish)	657	70.5	8.9	0.8	0.3	19.5	0.1	70.5	0.0	0.0	0.1	67.2	73.8
Bulgaria	406	49.3	9.6	5.8	3.7	26.8	4.8	49.3	0.0	1.4	3.4	47.3	51.5
Canada	1095	35.6	14.6	2.3	2.6	44.1	0.8	35.6	0.0	0.1	0.7	34.0	37.1
Chile	727	22.5	12.5	6.6	5.5	48.9	4.0	22.5	0.1	1.1	2.7	22.9	22.1
Chinese Taipei	732	60.5	3.5	2.0	2.1	31.8	0.1	60.5	0.0	0.1	0.0	60.5	60.5
Cyprus	386	30.2	17.7	6.7	3.8	40.1	1.4	30.2	0.0	0.3	1.1	29.2	31.5
Czech Republic	438	40.1	13.5	2.8	3.6	36.1	3.8	40.1	0.2	1.1	2.5	32.5	49.2
England	363	42.8	12.9	6.5	3.2	32.8	1.8	42.8	0.0	0.6	1.3	43.2	42.4
Finland	362	53.0	16.7	3.5	0.6	25.6	0.6	53.0	0.0	0.3	0.3	47.5	59.9
Hong Kong, SAR	648	59.9	8.1	3.1	1.7	26.7	0.5	59.9	0.3	0.2	0.0	59.5	60.2
Hungary	400	39.1	6.1	2.4	0.8	48.6	3.1	39.1	0.0	0.0	3.1	41.0	36.8
Indonesia	724	21.7	17.3	6.9	11.1	41.2	1.8	21.7	0.0	0.0	1.8	25.8	17.8
Iran, Islamic Rep.	659	23.2	16.7	8.2	6.9	43.5	1.5	23.2	0.0	0.3	1.3	21.1	24.7
Israel	523	34.7	23.0	5.7	4.3	28.8	3.6	34.7	0.0	1.5	2.1	33.7	35.6
Italy	407	41.2	14.5	8.0	6.2	25.0	5.1	41.2	0.0	1.6	3.5	40.8	41.7
Japan	604	72.7	9.9	1.4	0.7	15.0	0.2	72.7	0.0	0.0	0.2	72.5	72.9
Jordan	626	35.2	10.3	7.1	5.2	40.3	1.9	35.2	0.6	0.4	0.9	36.6	34.1
Korea, Rep. of	764	55.6	8.8	2.4	2.1	30.8	0.2	55.6	0.1	0.0	0.1	55.6	55.6
Latvia (LSS)	368	38.5	20.5	2.3	1.7	34.9	2.1	38.5	0.0	1.0	1.1	39.6	37.4
Lithuania	305	35.4	23.3	3.2	3.0	31.3	3.7	35.4	0.0	0.9	2.9	31.0	40.2
Macedonia, Rep. of	509	36.1	11.8	5.7	7.7	31.2	7.5	36.1	0.0	3.6	3.8	37.0	35.3
Malaysia	698	49.2	19.8	4.1	3.2	22.5	1.1	49.2	0.0	0.0	1.1	52.0	45.6
Moldova	468	40.2	12.5	7.4	7.7	29.2	3.1	40.2	0.8	1.3	1.0	35.5	45.2
Morocco	670	26.4	11.5	8.6	12.6	31.3	9.5	26.4	5.9	1.0	2.6	28.5	24.9
Netherlands	376	38.6	27.6	3.4	0.9	28.0	1.5	38.6	0.0	0.8	0.7	32.0	45.1
New Zealand	457	27.5	16.0	7.1	3.6	44.3	1.5	27.5	0.4	0.3	0.8	27.8	27.2
Philippines	802	13.0	13.9	11.4	15.6	44.7	1.3	13.0	0.2	0.2	0.9	14.6	11.1
Romania	419	47.5	6.3	5.8	2.9	33.2	4.2	47.5	0.2	1.9	2.1	49.1	46.1
Russian Federation	545	48.8	18.8	3.0	1.9	24.5	3.1	48.8	0.2	1.8	1.1	51.2	46.2
Singapore	607	66.8	7.2	1.0	1.8	22.6	0.5	66.8	0.2	0.0	0.3	69.4	64.0
Slovak Republic	433	48.6	14.8	0.7	0.8	32.7	2.4	48.6	0.0	0.0	2.4	48.4	48.8
Slovenia	393	53.0	12.6	4.5	3.1	24.3	2.5	53.0	0.0	0.0	2.5	54.1	51.8
South Africa	1029	15.4	14.4	13.9	19.5	35.3	1.5	15.4	0.3	1.1	0.2	14.2	16.7
Thailand	715	22.2	8.5	2.6	3.3	63.1	0.3	22.2	0.0	0.0	0.3	20.4	24.4
Tunisia	634	38.1	13.7	3.9	3.3	37.6	3.3	38.1	0.2	0.8	2.4	35.1	41.5
Turkey	976	28.5	14.5	5.2	7.9	42.3	1.6	28.5	0.0	0.4	1.2	28.5	28.6
United States	1129	19.5	16.0	3.6	3.1	56.7	1.1	19.5	0.0	0.3	0.8	18.2	20.8
International Avg.	.	39.9	13.8	4.8	4.5	34.6	2.3	39.9	0.3	0.6	1.4	39.2	40.7

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Algebra  
 Label: Value of x in mathematical equation ( M022089 - L17 )  
 Item Type = SA Key = X

COUNTRY	N	10	70	71	79	99	V1	NOT REACH		1.GIRL % Right	2.BOY % Right
								ED	OMIT		
Australia	501	30.7	0.5	16.7	32.1	20.1	30.7	0.1	20.0	29.2	32.3
Belgium (Flemish)	657	57.6	1.0	7.0	21.6	12.8	57.6	0.0	12.8	58.7	56.4
Bulgaria	406	34.4	0.4	36.4	11.4	17.5	34.4	1.4	16.0	39.8	28.3
Canada	1095	32.6	0.7	24.7	26.7	15.3	32.6	0.1	15.1	32.4	32.7
Chile	727	11.6	2.4	14.0	27.7	44.2	11.6	1.1	43.1	11.2	12.0
Chinese Taipei	732	73.3	1.2	0.4	17.1	8.0	73.3	0.1	7.8	74.6	72.0
Cyprus	387	50.8	8.1	5.6	16.2	19.2	50.8	0.3	19.0	55.1	45.6
Czech Republic	438	66.0	1.4	12.7	11.2	8.7	66.0	1.1	7.5	64.7	67.6
England	363	25.8	0.8	17.0	39.2	17.2	25.8	0.6	16.7	25.8	25.8
Finland	362	24.2	0.4	18.7	38.4	18.3	24.2	0.3	18.0	22.1	26.8
Hong Kong, SAR	648	80.3	1.8	2.6	10.1	5.2	80.3	0.2	5.0	81.6	79.1
Hungary	400	73.6	1.4	1.3	12.3	11.5	73.6	0.3	11.2	74.3	73.0
Indonesia	724	18.2	1.8	11.1	45.5	23.5	18.2	0.3	23.2	19.9	16.6
Iran, Islamic Rep.	659	23.1	2.8	30.6	11.6	31.9	23.1	0.3	31.6	26.3	20.9
Israel	523	50.7	0.7	5.6	20.7	22.4	50.7	1.5	20.9	49.9	51.4
Italy	407	45.5	4.8	12.9	16.0	20.8	45.5	1.6	19.2	46.9	44.0
Japan	604	84.8	1.3	7.6	3.0	3.2	84.8	0.0	3.2	85.8	83.9
Jordan	627	18.3	2.2	23.0	38.8	17.8	18.3	0.4	17.4	20.4	16.5
Korea, Rep. of	764	79.9	0.5	3.6	12.0	4.0	79.9	0.0	4.0	81.8	78.1
Latvia (LSS)	368	58.2	0.3	0.8	23.7	17.0	58.2	1.0	16.0	62.9	53.2
Lithuania	305	62.2	0.7	9.0	12.9	15.2	62.2	0.9	14.4	64.9	59.1
Macedonia, Rep. of	509	54.1	0.4	3.1	13.4	29.0	54.1	3.8	25.2	58.5	50.2
Malaysia	698	42.6	2.2	20.2	23.1	11.8	42.6	0.0	11.8	44.0	41.0
Moldova	468	56.0	2.6	8.8	15.5	17.2	56.0	1.3	15.9	58.0	53.7
Morocco	670	6.6	0.5	30.5	18.6	43.8	6.6	1.3	42.5	5.2	7.7
Netherlands	376	19.2	0.5	13.3	53.3	13.7	19.2	0.8	12.9	20.3	18.1
New Zealand	457	18.9	0.6	20.6	41.5	18.5	18.9	0.3	18.2	20.0	17.9
Philippines	802	6.4	0.0	36.5	33.4	23.7	6.4	0.3	23.3	5.8	7.2
Romania	419	70.2	2.1	3.4	11.8	12.4	70.2	1.9	10.5	74.6	66.3
Russian Federation	545	76.7	1.7	2.9	9.0	9.7	76.7	1.8	7.9	79.9	73.4
Singapore	607	75.0	2.7	6.0	12.1	4.2	75.0	0.0	4.2	75.4	74.6
Slovak Republic	433	78.5	1.5	7.1	3.1	9.8	78.5	0.0	9.8	81.7	75.2
Slovenia	393	76.0	1.1	6.7	6.9	9.3	76.0	0.0	9.3	82.1	69.2
South Africa	1029	4.7	0.3	54.5	27.8	12.6	4.7	1.1	11.6	4.7	4.8
Thailand	715	28.6	1.0	0.0	61.5	8.9	28.6	0.0	8.9	30.1	26.8
Tunisia	632	5.7	0.1	27.4	26.3	40.5	5.7	0.9	39.5	4.2	7.4
Turkey	976	32.4	2.2	0.2	30.3	34.8	32.4	0.4	34.4	40.2	27.1
United States	1129	33.9	1.0	28.4	25.1	11.5	33.9	0.3	11.2	33.1	34.8
International Avg.	.	44.4	1.5	14.0	22.7	17.5	44.4	0.7	16.8	46.0	42.9

V1 = % Scoring 1 or better V2 = % Scoring 2 or better V3 = % Scoring 3 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Fractions and Number Sense  
 Label: Subtraction with three fractions ( M022093 - L18 )  
 Item Type = MC Key = B

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	501	7.7	48.4	26.2	9.4	4.9	3.5	48.4	0.0	0.4	3.1	52.7	43.8
Belgium (Flemish)	657	1.4	77.8	16.9	1.9	1.2	0.8	77.8	0.1	0.1	0.6	78.7	76.8
Bulgaria	406	4.2	48.4	39.0	3.0	0.3	5.1	48.4	0.0	2.2	2.9	49.1	47.7
Canada	1095	5.4	56.9	29.3	4.1	2.0	2.3	56.9	0.1	0.4	1.8	55.6	58.0
Chile	727	6.2	32.4	41.2	6.1	5.7	8.4	32.4	0.0	2.7	5.7	33.3	31.6
Chinese Taipei	732	2.5	81.3	11.8	2.7	1.4	0.4	81.3	0.0	0.1	0.3	82.6	80.0
Cyprus	386	3.3	46.9	43.4	3.6	2.0	0.8	46.9	0.0	0.5	0.4	49.6	43.5
Czech Republic	438	3.8	55.1	31.6	1.4	3.4	4.7	55.1	0.0	1.8	2.8	59.3	50.3
England	363	9.6	33.8	30.9	13.7	6.9	5.1	33.8	0.7	1.3	3.2	33.3	34.3
Finland	362	3.1	50.9	34.3	6.8	2.6	2.3	50.9	0.0	0.3	2.0	46.0	56.8
Hong Kong, SAR	648	1.6	76.5	18.5	1.4	1.2	0.8	76.5	0.2	0.2	0.5	77.1	75.9
Hungary	400	1.5	60.1	31.2	1.0	0.3	5.8	60.1	0.3	0.9	4.6	60.4	59.8
Indonesia	724	7.7	51.0	30.1	3.3	5.7	2.0	51.0	0.0	0.5	1.6	54.3	47.8
Iran, Islamic Rep.	659	5.2	35.8	44.5	4.2	7.3	3.0	35.8	0.1	0.7	2.2	38.4	33.9
Israel	523	6.6	43.9	32.4	5.6	3.3	8.3	43.9	0.2	1.9	6.2	43.7	44.1
Italy	407	3.0	42.8	46.3	1.6	1.8	4.5	42.8	0.2	1.9	2.4	44.3	41.1
Japan	604	2.3	75.5	18.8	1.6	1.4	0.5	75.5	0.0	0.2	0.3	78.8	72.5
Jordan	627	4.3	39.6	45.3	3.2	5.3	2.3	39.6	1.0	0.7	0.6	36.5	42.3
Korea, Rep. of	764	1.8	80.9	13.8	1.6	1.8	0.0	80.9	0.0	0.0	0.0	82.1	79.9
Latvia (LSS)	368	7.4	50.4	35.1	1.3	1.7	4.2	50.4	0.1	2.1	1.9	57.3	43.0
Lithuania	305	5.5	57.9	27.3	1.3	2.2	5.8	57.9	0.0	0.9	4.9	61.8	53.5
Macedonia, Rep. of	509	7.5	36.7	32.7	3.0	6.2	13.9	36.7	0.5	5.3	8.1	36.7	36.8
Malaysia	698	4.4	71.1	17.2	2.8	3.2	1.3	71.1	0.0	0.4	0.9	76.1	64.9
Moldova	468	7.3	43.4	35.4	2.1	6.4	5.3	43.4	1.2	2.1	2.0	47.2	39.3
Morocco	670	10.9	15.6	31.4	14.5	12.0	15.7	15.6	6.5	2.7	6.5	10.7	19.2
Netherlands	376	9.0	55.0	26.2	5.5	2.7	1.6	55.0	0.3	0.8	0.4	56.9	53.2
New Zealand	457	9.9	41.2	32.8	8.8	5.7	1.5	41.2	0.2	0.3	1.0	42.0	40.6
Philippines	802	12.2	34.8	31.8	9.2	10.5	1.5	34.8	0.2	0.7	0.6	37.0	32.4
Romania	419	3.2	49.9	35.5	2.1	3.4	5.9	49.9	0.2	1.9	3.7	49.8	49.9
Russian Federation	545	3.0	64.2	22.7	1.0	3.4	5.7	64.2	1.2	2.1	2.4	64.2	64.1
Singapore	607	0.5	86.6	10.9	0.4	0.9	0.7	86.6	0.0	0.1	0.6	88.5	84.6
Slovak Republic	433	1.3	61.6	31.3	0.7	1.7	3.4	61.6	0.0	0.3	3.1	60.1	63.0
Slovenia	393	2.1	62.7	27.5	2.7	2.0	3.0	62.7	0.2	0.6	2.1	64.3	60.9
South Africa	1029	11.7	22.6	39.0	7.3	15.8	3.6	22.6	0.6	1.6	1.5	22.1	23.2
Thailand	715	5.4	50.7	31.8	3.5	8.2	0.4	50.7	0.0	0.1	0.3	50.0	51.6
Tunisia	633	5.1	35.7	37.7	5.6	9.3	6.6	35.7	1.5	2.1	3.1	31.8	40.1
Turkey	976	4.3	43.7	42.2	2.9	4.3	2.7	43.7	0.3	0.8	1.6	47.4	41.1
United States	1129	6.5	54.6	26.4	6.7	4.2	1.5	54.6	0.1	0.7	0.8	55.4	53.8
International Avg.	.	5.2	52.0	30.5	4.1	4.3	3.8	52.0	0.4	1.1	2.3	53.0	50.9

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Measurement  
 Label: Voltage shown on meter ( M022097 - M01 )  
 Item Type = MC Key = C

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	510	9.1	1.8	85.2	3.5	0.4	85.2	0.2	0.0	0.2	80.1	90.4
Belgium (Flemish)	649	14.3	0.3	82.7	2.6	0.0	82.7	0.0	0.0	0.0	79.3	86.4
Bulgaria	413	36.6	3.6	54.6	3.7	1.4	54.6	0.2	0.2	1.0	48.3	62.1
Canada	1106	14.3	2.5	78.9	4.1	0.2	78.9	0.0	0.0	0.2	74.6	83.0
Chile	736	49.7	4.9	38.1	6.8	0.5	38.1	0.0	0.0	0.5	30.6	45.0
Chinese Taipei	719	7.3	1.3	87.5	3.8	0.0	87.5	0.0	0.0	0.0	87.4	87.6
Cyprus	387	31.9	4.4	56.0	7.1	0.5	56.0	0.0	0.0	0.5	56.2	55.9
Czech Republic	438	19.2	0.7	77.2	2.9	0.0	77.2	0.0	0.0	0.0	70.9	83.1
England	379	15.3	1.0	78.1	1.8	3.7	78.1	0.0	3.7	0.0	77.5	78.6
Finland	369	14.0	0.9	79.7	4.6	0.7	79.7	0.0	0.0	0.7	77.8	81.7
Hong Kong, SAR	648	5.1	1.3	92.5	0.7	0.4	92.5	0.0	0.1	0.3	94.2	90.8
Hungary	393	23.4	0.8	74.8	1.0	0.0	74.8	0.0	0.0	0.0	74.3	74.9
Indonesia	733	58.0	5.7	27.5	8.6	0.2	27.5	0.0	0.0	0.2	22.1	32.8
Iran, Islamic Rep.	665	60.5	6.0	26.8	5.8	0.9	26.8	0.0	0.3	0.7	17.8	32.8
Israel	515	22.0	5.4	54.3	16.4	1.9	54.3	0.0	0.2	1.7	48.5	59.7
Italy	411	40.9	3.6	46.2	8.0	1.4	46.2	0.0	0.0	1.4	41.5	52.1
Japan	599	4.1	0.4	93.9	1.6	0.0	93.9	0.0	0.0	0.0	93.7	94.1
Jordan	631	39.8	7.9	26.0	25.8	0.5	26.0	0.1	0.0	0.3	20.2	31.1
Korea, Rep. of	762	10.5	1.1	86.7	1.7	0.0	86.7	0.0	0.0	0.0	87.0	86.4
Latvia (LSS)	357	29.0	2.2	62.4	5.5	1.0	62.4	0.8	0.2	0.0	61.4	63.6
Lithuania	287	21.1	1.4	70.6	6.9	0.0	70.6	0.0	0.0	0.0	66.1	75.1
Macedonia, Rep. of	510	46.9	3.3	45.7	3.5	0.6	45.7	0.2	0.0	0.4	43.1	48.0
Malaysia	696	15.0	3.1	78.6	3.1	0.1	78.6	0.0	0.0	0.1	75.1	83.2
Moldova	466	37.8	7.5	45.8	8.7	0.2	45.8	0.0	0.0	0.2	40.1	53.6
Morocco	675	62.6	7.7	22.8	5.0	1.9	22.8	0.2	0.0	1.7	17.5	26.4
Netherlands	365	10.4	1.4	86.0	2.3	0.0	86.0	0.0	0.0	0.0	86.1	85.8
New Zealand	459	20.8	2.0	75.7	1.4	0.2	75.7	0.0	0.0	0.2	74.8	76.5
Philippines	828	58.2	4.7	29.8	7.0	0.3	29.8	0.1	0.0	0.2	27.6	32.3
Romania	429	41.7	10.5	41.6	5.9	0.2	41.6	0.0	0.0	0.2	40.9	42.4
Russian Federation	543	26.5	2.8	67.5	3.1	0.1	67.5	0.0	0.0	0.1	65.3	69.6
Singapore	628	2.2	0.2	96.4	0.9	0.3	96.4	0.0	0.0	0.3	94.8	97.8
Slovak Republic	443	24.2	4.3	68.6	2.9	0.0	68.6	0.0	0.0	0.0	64.4	73.0
Slovenia	393	20.8	2.3	74.8	2.2	0.0	74.8	0.0	0.0	0.0	71.4	78.6
South Africa	1056	60.2	8.3	16.8	14.3	0.3	16.8	0.2	0.1	0.1	16.4	17.4
Thailand	717	35.6	3.1	56.1	4.9	0.3	56.1	0.1	0.0	0.2	55.8	56.4
Tunisia	632	54.5	3.3	32.1	9.4	0.7	32.1	0.2	0.0	0.6	22.9	41.8
Turkey	977	46.7	4.1	38.8	10.2	0.3	38.8	0.0	0.0	0.3	30.2	44.6
United States	1127	14.3	2.1	78.0	5.5	0.1	78.0	0.0	0.1	0.1	74.1	81.8
International Avg.	.	29.1	3.4	61.4	5.6	0.5	61.4	0.1	0.1	0.3	58.2	64.6

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Geometry  
 Label: Lines of symmetry in rhombus ( M022259 - M02 )  
 Item Type = MC Key = B

COUNTRY	N	DIFF	1.GIRL	2.BOY
			% Right	% Right
Australia	.	.	.	.
Belgium (Flemish)	.	.	.	.
Bulgaria	.	.	.	.
Canada	.	.	.	.
Chile	.	.	.	.
Chinese Taipei	.	.	.	.
Cyprus	.	.	.	.
Czech Republic	.	.	.	.
England	.	.	.	.
Finland	.	.	.	.
Hong Kong, SAR	.	.	.	.
Hungary	.	.	.	.
Indonesia	.	.	.	.
Iran, Islamic Rep.	.	.	.	.
Israel	.	.	.	.
Italy	.	.	.	.
Japan	.	.	.	.
Jordan	.	.	.	.
Korea, Rep. of	.	.	.	.
Latvia (LSS)	.	.	.	.
Lithuania	.	.	.	.
Macedonia, Rep. of	.	.	.	.
Malaysia	.	.	.	.
Moldova	.	.	.	.
Morocco	.	.	.	.
Netherlands	.	.	.	.
New Zealand	.	.	.	.
Philippines	.	.	.	.
Romania	.	.	.	.
Russian Federation	.	.	.	.
Singapore	.	.	.	.
Slovak Republic	.	.	.	.
Slovenia	.	.	.	.
South Africa	.	.	.	.
Thailand	.	.	.	.
Tunisia	.	.	.	.
Turkey	.	.	.	.
United States	.	.	.	.

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent



Mathematics: Data Representation, Analysis and Probability  
 Label: Box with greater chance to pick 17 ( M022101 - M03 )  
 Item Type = MC Key = A

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	510	83.5	3.7	9.0	2.6	1.2	83.5	0.7	0.0	0.5	85.0	81.9
Belgium (Flemish)	649	85.6	1.6	8.1	4.4	0.3	85.6	0.1	0.0	0.1	83.8	87.6
Bulgaria	413	73.8	4.9	10.0	9.3	2.0	73.8	0.5	0.2	1.3	74.1	73.4
Canada	1106	87.5	1.2	5.1	6.0	0.2	87.5	0.0	0.0	0.2	86.6	88.4
Chile	736	53.1	5.3	19.1	21.5	1.0	53.1	0.0	0.0	1.0	49.9	56.1
Chinese Taipei	719	90.6	2.3	4.8	2.4	0.0	90.6	0.0	0.0	0.0	92.6	88.6
Cyprus	386	75.4	5.9	6.1	12.0	0.6	75.4	0.0	0.0	0.6	75.3	75.5
Czech Republic	438	73.5	2.6	21.1	2.8	0.0	73.5	0.0	0.0	0.0	69.5	77.1
England	379	82.9	3.0	8.5	1.9	3.7	82.9	0.0	3.7	0.0	79.1	86.6
Finland	369	82.5	3.4	8.4	4.3	1.4	82.5	0.0	0.0	1.4	81.4	83.5
Hong Kong, SAR	648	79.1	5.4	6.4	8.4	0.6	79.1	0.0	0.1	0.5	82.3	75.9
Hungary	393	79.7	1.6	9.9	7.8	0.9	79.7	0.4	0.0	0.5	80.6	79.6
Indonesia	733	36.0	23.5	25.2	14.3	1.1	36.0	0.0	0.0	1.1	32.6	39.2
Iran, Islamic Rep.	665	49.4	7.2	16.3	26.0	1.1	49.4	0.0	0.3	0.9	44.6	52.5
Israel	515	71.1	11.4	9.1	7.3	1.2	71.1	0.4	0.2	0.7	70.0	72.0
Italy	411	73.4	6.0	12.9	6.7	1.0	73.4	0.0	0.0	1.0	74.8	71.7
Japan	599	84.0	2.1	4.8	9.1	0.0	84.0	0.0	0.0	0.0	85.2	82.9
Jordan	631	47.4	11.6	25.2	14.2	1.6	47.4	0.0	0.0	1.6	47.6	47.2
Korea, Rep. of	762	92.3	2.3	3.1	2.4	0.0	92.3	0.0	0.0	0.0	91.0	93.5
Latvia (LSS)	357	68.3	4.2	14.5	11.9	1.1	68.3	0.2	0.2	0.7	67.3	69.6
Lithuania	287	79.8	2.3	9.4	7.9	0.6	79.8	0.0	0.0	0.6	79.7	79.9
Macedonia, Rep. of	510	46.5	11.3	20.2	18.0	4.1	46.5	0.4	0.0	3.7	43.8	48.9
Malaysia	696	63.9	2.8	10.0	22.8	0.5	63.9	0.0	0.0	0.5	61.8	66.6
Moldova	466	51.3	7.3	28.8	12.1	0.5	51.3	0.2	0.0	0.3	49.6	53.6
Morocco	675	34.4	17.3	17.5	29.5	1.3	34.4	0.2	0.0	1.1	26.9	39.4
Netherlands	365	87.0	1.3	8.9	2.9	0.0	87.0	0.0	0.0	0.0	87.5	86.4
New Zealand	459	78.9	5.3	9.6	5.7	0.5	78.9	0.0	0.0	0.5	78.6	79.2
Philippines	828	47.3	23.7	19.4	9.5	0.0	47.3	0.0	0.0	0.0	46.9	47.9
Romania	429	58.7	6.4	21.3	12.5	1.1	58.7	0.6	0.0	0.5	57.2	60.2
Russian Federation	543	83.2	3.2	9.5	3.5	0.6	83.2	0.0	0.0	0.6	82.6	83.8
Singapore	628	78.1	1.3	4.8	15.3	0.4	78.1	0.2	0.0	0.3	75.7	80.3
Slovak Republic	443	86.1	1.3	9.9	2.3	0.3	86.1	0.0	0.0	0.3	84.0	88.4
Slovenia	393	79.8	3.7	9.4	6.4	0.7	79.8	0.0	0.0	0.7	78.8	80.9
South Africa	1056	31.6	24.2	22.7	20.4	1.1	31.6	0.3	0.1	0.7	32.6	30.5
Thailand	717	61.4	7.0	11.8	19.5	0.3	61.4	0.0	0.0	0.3	63.3	59.1
Tunisia	632	44.4	6.5	34.3	12.5	2.2	44.4	1.6	0.0	0.6	43.8	45.0
Turkey	977	68.7	8.4	10.1	12.4	0.5	68.7	0.0	0.0	0.5	67.1	69.7
United States	1127	85.0	4.4	5.9	4.5	0.1	85.0	0.0	0.1	0.1	83.4	86.5
International Avg.	.	69.3	6.5	12.9	10.3	0.9	69.3	0.2	0.1	0.6	68.3	70.2

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Fractions and Number Sense  
 Label: Which fraction is smallest ( M022104 - M04 )  
 Item Type = MC Key = D

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	510	12.0	1.4	5.0	79.6	1.9	79.6	0.2	0.0	1.7	75.4	84.0
Belgium (Flemish)	649	9.3	0.9	6.7	82.8	0.3	82.8	0.1	0.0	0.2	82.0	83.7
Bulgaria	413	26.5	1.3	5.0	64.6	2.6	64.6	0.0	0.2	2.4	65.2	63.8
Canada	1106	11.0	1.4	6.2	80.3	1.0	80.3	0.2	0.0	0.8	80.1	80.5
Chile	736	69.5	1.5	3.3	25.1	0.6	25.1	0.0	0.0	0.6	23.1	27.0
Chinese Taipei	719	7.5	1.5	6.7	84.3	0.0	84.3	0.0	0.0	0.0	84.5	84.0
Cyprus	386	10.5	4.3	9.9	74.5	0.7	74.5	0.2	0.0	0.5	73.5	75.4
Czech Republic	438	17.4	0.4	7.5	74.6	0.0	74.6	0.0	0.0	0.0	70.7	78.2
England	379	20.4	0.7	5.6	68.6	4.8	68.6	0.0	3.7	1.0	65.4	71.6
Finland	369	8.5	1.7	5.5	83.2	1.2	83.2	0.0	0.0	1.2	81.9	84.4
Hong Kong, SAR	648	5.5	1.5	5.4	87.3	0.3	87.3	0.0	0.1	0.2	88.6	86.1
Hungary	393	16.9	2.0	5.5	74.7	1.0	74.7	0.0	0.0	1.0	72.3	76.8
Indonesia	733	38.0	2.6	4.4	54.2	0.7	54.2	0.0	0.0	0.7	48.3	60.1
Iran, Islamic Rep.	665	44.6	1.7	5.4	47.3	1.0	47.3	0.0	0.3	0.8	41.1	51.5
Israel	515	10.1	1.9	7.8	79.1	1.2	79.1	0.0	0.2	1.0	76.5	81.5
Italy	411	37.7	2.7	4.6	52.7	2.2	52.7	0.3	0.0	1.9	51.7	54.0
Japan	599	7.0	1.4	5.5	85.9	0.1	85.9	0.0	0.0	0.1	85.3	86.6
Jordan	631	30.4	1.9	16.5	50.0	1.2	50.0	0.0	0.0	1.2	47.5	52.2
Korea, Rep. of	762	11.9	1.3	7.4	79.3	0.0	79.3	0.0	0.0	0.0	77.4	81.2
Latvia (LSS)	357	15.1	2.1	4.7	76.3	1.7	76.3	0.0	0.2	1.5	74.3	78.7
Lithuania	287	31.4	0.3	3.7	63.1	1.6	63.1	0.0	0.0	1.6	59.7	66.4
Macedonia, Rep. of	510	28.1	2.1	4.1	62.1	3.6	62.1	0.3	0.0	3.3	59.1	64.8
Malaysia	696	16.9	1.8	9.5	71.6	0.3	71.6	0.0	0.0	0.3	71.2	72.1
Moldova	466	47.8	1.2	3.9	46.9	0.2	46.9	0.0	0.0	0.2	45.3	49.1
Morocco	675	56.2	1.1	3.1	38.5	1.1	38.5	0.2	0.0	0.9	35.9	40.3
Netherlands	365	5.3	0.5	3.0	91.0	0.2	91.0	0.0	0.0	0.2	89.5	93.0
New Zealand	459	17.6	2.3	6.1	72.8	1.2	72.8	0.0	0.0	1.2	71.9	73.6
Philippines	828	35.1	4.1	11.7	48.5	0.6	48.5	0.1	0.0	0.5	48.4	48.8
Romania	429	38.3	2.8	6.7	51.2	1.0	51.2	0.0	0.2	0.8	49.5	52.8
Russian Federation	543	26.9	0.4	2.6	68.9	1.2	68.9	0.1	0.0	1.2	69.3	68.5
Singapore	628	2.6	1.5	5.1	90.5	0.4	90.5	0.0	0.0	0.4	88.3	92.4
Slovak Republic	443	20.0	0.7	5.0	73.7	0.5	73.7	0.0	0.0	0.5	68.0	79.6
Slovenia	393	12.1	4.0	4.5	77.8	1.6	77.8	0.0	0.0	1.6	73.1	83.1
South Africa	1056	58.8	2.5	6.3	31.8	0.6	31.8	0.0	0.1	0.5	29.1	35.1
Thailand	717	38.9	2.3	6.0	52.1	0.7	52.1	0.0	0.0	0.7	52.0	52.3
Tunisia	632	26.0	3.6	9.4	58.8	2.3	58.8	1.2	0.0	1.0	51.5	66.4
Turkey	977	47.4	1.9	4.9	44.8	1.0	44.8	0.1	0.1	0.8	43.0	46.0
United States	1127	12.1	2.0	7.1	78.0	0.8	78.0	0.1	0.1	0.7	75.1	80.9
International Avg.	.	24.5	1.8	6.1	66.5	1.1	66.5	0.1	0.1	0.9	64.3	68.6

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Geometry  
 Label: Triangle rotated about point in plane ( M022105 - M05 )  
 Item Type = MC Key = D

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	510	17.6	20.2	7.1	48.5	4.9	1.6	48.5	0.0	0.0	1.6	46.0	51.2
Belgium (Flemish)	649	15.8	9.6	3.1	62.4	6.2	2.8	62.4	0.2	0.0	2.7	63.5	61.2
Bulgaria	413	21.6	19.9	10.3	33.6	6.9	7.8	33.6	1.4	0.2	6.1	33.7	33.4
Canada	1106	13.9	15.5	6.5	56.8	6.7	0.6	56.8	0.2	0.0	0.5	54.3	59.2
Chile	736	31.3	21.1	14.5	24.0	7.5	1.7	24.0	0.0	0.0	1.7	22.2	25.7
Chinese Taipei	719	24.3	7.8	4.5	58.7	4.1	0.6	58.7	0.2	0.0	0.4	57.3	60.1
Cyprus	383	16.0	26.5	19.6	23.9	10.9	3.2	23.9	0.6	0.0	2.6	23.6	24.3
Czech Republic	438	27.9	24.0	5.6	35.2	5.4	1.8	35.2	0.0	0.0	1.8	26.7	42.9
England	379	12.1	15.8	9.1	50.6	7.1	5.3	50.6	0.6	3.7	1.0	50.8	50.4
Finland	369	15.5	20.8	6.9	50.2	4.9	1.7	50.2	0.0	0.0	1.7	43.0	57.2
Hong Kong, SAR	648	12.4	6.1	4.5	70.3	6.4	0.3	70.3	0.0	0.1	0.2	69.5	71.1
Hungary	393	16.6	5.8	2.8	65.4	7.3	2.1	65.4	0.0	0.0	2.1	59.8	70.8
Indonesia	733	23.4	15.3	7.8	41.8	11.4	0.3	41.8	0.1	0.0	0.3	40.4	43.2
Iran, Islamic Rep.	665	29.2	21.0	6.8	29.3	12.6	1.1	29.3	0.0	0.3	0.8	23.6	33.2
Israel	515	25.3	15.8	11.7	33.4	9.9	3.8	33.4	0.8	0.2	2.9	36.7	30.3
Italy	411	20.0	33.9	3.5	31.6	8.8	2.3	31.6	0.2	0.0	2.0	32.4	30.5
Japan	599	15.2	14.6	0.6	66.8	2.4	0.5	66.8	0.5	0.0	0.0	61.3	72.1
Jordan	631	20.5	12.5	21.3	28.8	15.8	1.2	28.8	0.5	0.0	0.7	26.7	30.6
Korea, Rep. of	762	23.9	15.8	5.7	51.0	3.2	0.4	51.0	0.0	0.0	0.4	44.0	58.0
Latvia (LSS)	357	19.8	23.0	7.6	42.2	4.8	2.5	42.2	0.3	0.2	2.1	33.7	49.7
Lithuania	287	27.3	12.5	12.0	40.5	6.0	1.6	40.5	0.0	0.0	1.6	31.7	49.4
Macedonia, Rep. of	510	19.9	12.4	20.6	28.5	12.2	6.4	28.5	0.8	0.0	5.6	25.9	30.8
Malaysia	696	14.7	17.3	4.2	55.0	8.2	0.7	55.0	0.1	0.0	0.5	49.6	62.0
Moldova	466	24.0	13.7	19.0	28.9	12.7	1.7	28.9	0.5	0.0	1.2	29.5	28.0
Morocco	678	11.5	11.9	26.1	19.3	25.2	6.0	19.3	1.6	0.0	4.5	23.4	16.4
Netherlands	365	12.2	13.6	3.6	63.7	6.6	0.2	63.7	0.0	0.0	0.2	64.3	63.0
New Zealand	459	14.7	13.5	10.1	52.1	8.7	0.9	52.1	0.2	0.0	0.7	54.5	49.7
Philippines	828	19.2	18.7	32.9	19.3	9.4	0.5	19.3	0.0	0.0	0.5	20.0	18.5
Romania	429	21.6	22.0	13.0	22.0	13.0	8.4	22.0	5.2	0.2	3.0	17.6	26.4
Russian Federation	543	24.0	18.6	8.0	39.8	7.5	2.2	39.8	0.5	0.0	1.7	37.5	42.0
Singapore	628	10.6	23.1	4.4	56.3	5.5	0.1	56.3	0.0	0.0	0.1	53.1	59.2
Slovak Republic	443	26.8	20.2	4.3	40.6	6.9	1.2	40.6	0.0	0.0	1.2	36.9	44.4
Slovenia	393	31.6	8.8	23.0	29.3	4.4	2.9	29.3	0.4	0.0	2.5	24.3	35.0
South Africa	1056	11.5	11.2	35.1	19.2	20.0	3.1	19.2	0.2	0.1	2.7	19.0	19.4
Thailand	717	22.2	16.1	9.2	41.3	10.8	0.4	41.3	0.0	0.0	0.4	38.8	44.3
Tunisia	632	10.7	18.9	18.0	25.7	20.4	6.4	25.7	3.6	0.0	2.7	21.0	30.6
Turkey	976	18.3	25.3	14.6	22.5	16.2	3.0	22.5	0.0	0.1	2.9	20.4	24.0
United States	1127	21.1	22.7	11.6	37.1	6.8	0.6	37.1	0.1	0.1	0.5	32.9	41.1
International Avg.	.	19.6	17.0	11.3	40.7	9.2	2.3	40.7	0.5	0.1	1.7	38.1	43.1

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Fractions and Number Sense  
 Label: Ratio of children to adults on bus ( M022106 - M06 )  
 Item Type = SA Key = X

COUNTRY	N	10	70	71	72	73	79	99	V1	NOT REACH		1.GIRL	2.BOY
										ED	OMIT	% Right	% Right
Australia	510	43.0	2.5	10.8	1.6	1.5	31.9	8.6	43.0	0.0	8.6	41.4	44.8
Belgium (Flemish)	649	36.6	9.1	7.1	0.0	3.0	36.8	7.4	36.6	0.0	7.4	32.1	41.6
Bulgaria	413	45.2	3.2	9.1	0.2	0.7	23.5	18.0	45.2	0.2	17.8	44.0	46.5
Canada	1106	43.4	3.3	9.1	1.6	1.7	34.7	6.1	43.4	0.0	6.1	42.2	44.6
Chile	736	14.3	5.0	4.9	2.3	1.7	41.0	30.9	14.3	0.0	30.9	12.7	15.7
Chinese Taipei	719	67.4	2.0	11.2	0.4	1.8	14.9	2.3	67.4	0.0	2.3	67.9	66.8
Cyprus	387	28.0	6.6	5.5	0.2	2.5	35.7	21.6	28.0	0.0	21.6	27.9	28.1
Czech Republic	438	38.2	5.3	12.0	0.0	2.9	23.7	17.9	38.2	0.0	17.9	35.7	40.4
England	379	32.1	4.1	8.7	0.7	1.7	41.3	11.4	32.1	3.7	7.6	27.7	36.4
Finland	369	19.1	9.0	10.5	0.2	3.4	48.0	9.9	19.1	0.0	9.9	14.5	23.6
Hong Kong, SAR	648	59.2	3.1	16.8	0.2	0.3	16.1	4.4	59.2	0.1	4.3	61.3	57.0
Hungary	393	51.5	2.8	6.3	0.2	1.1	22.0	16.0	51.5	0.0	16.0	55.1	47.3
Indonesia	733	19.7	7.2	8.8	0.3	1.2	51.4	11.4	19.7	0.0	11.4	20.4	19.1
Iran, Islamic Rep.	665	26.0	10.2	5.6	1.4	2.5	39.4	14.8	26.0	0.3	14.6	22.8	28.3
Israel	515	24.4	6.2	7.7	1.1	1.5	34.0	25.1	24.4	0.4	24.7	17.7	30.7
Italy	411	34.9	9.0	6.9	0.9	1.7	30.6	15.9	34.9	0.0	15.9	34.4	35.6
Japan	599	55.2	3.6	13.9	0.3	0.9	19.0	7.1	55.2	0.0	7.1	49.4	60.8
Jordan	630	15.3	6.6	3.1	3.4	2.6	57.6	11.5	15.3	0.0	11.5	13.0	17.4
Korea, Rep. of	762	62.5	2.7	12.4	0.2	1.3	18.3	2.6	62.5	0.0	2.6	63.0	62.1
Latvia (LSS)	357	36.5	4.5	7.5	1.4	0.6	30.4	18.9	36.5	0.2	18.7	34.0	39.0
Lithuania	287	22.5	7.5	8.5	0.0	1.3	26.3	33.9	22.5	0.0	33.9	20.5	24.6
Macedonia, Rep. of	510	17.8	4.0	2.5	0.0	2.2	33.3	40.3	17.8	0.0	40.3	15.5	19.8
Malaysia	696	46.9	5.3	10.5	0.2	2.5	27.7	7.0	46.9	0.0	7.0	48.5	44.8
Moldova	466	32.9	8.4	5.8	0.4	1.6	32.9	18.1	32.9	0.0	18.1	33.5	32.0
Morocco	678	5.5	2.2	0.7	0.1	1.2	66.7	23.6	5.5	0.0	23.6	4.3	6.4
Netherlands	365	37.1	10.6	9.4	0.0	1.0	37.9	3.9	37.1	0.0	3.9	34.8	40.2
New Zealand	459	33.3	3.5	8.6	1.6	1.9	42.1	9.1	33.3	0.0	9.1	31.2	35.3
Philippines	828	13.7	7.4	3.1	6.2	2.2	59.9	7.5	13.7	0.0	7.5	13.3	14.2
Romania	429	28.2	8.9	5.9	1.6	1.2	26.7	27.5	28.2	0.2	27.3	32.1	24.3
Russian Federation	543	29.5	8.3	7.1	0.0	1.8	31.3	22.0	29.5	0.0	22.0	27.2	31.8
Singapore	628	87.9	0.8	4.8	0.0	0.0	6.1	0.3	87.9	0.0	0.3	91.5	84.7
Slovak Republic	443	51.3	3.2	6.6	0.3	1.6	21.7	15.5	51.3	0.0	15.5	46.7	56.0
Slovenia	393	43.6	2.8	7.7	0.2	1.7	31.8	12.2	43.6	0.0	12.2	48.6	38.0
South Africa	1056	6.7	24.5	1.7	4.7	2.7	54.5	5.2	6.7	0.1	5.1	7.0	6.3
Thailand	717	30.7	1.9	9.6	1.3	1.5	49.1	6.0	30.7	0.0	6.0	28.4	33.3
Tunisia	631	30.4	5.6	1.1	0.3	2.7	40.9	19.1	30.4	0.0	19.1	25.0	36.0
Turkey	976	10.8	12.7	5.3	0.3	3.1	47.5	20.2	10.8	0.1	20.1	8.8	12.2
United States	1127	35.5	4.0	7.5	1.3	2.6	43.0	6.0	35.5	0.1	6.0	35.8	35.1
International Avg.	.	34.7	6.0	7.5	0.9	1.8	35.0	14.2	34.7	0.1	14.0	33.4	35.8

V1 = % Scoring 1 or better V2 = % Scoring 2 or better V3 = % Scoring 3 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Geometry  
 Label: Degree of angle from supplements ( M022108 - M07 )  
 Item Type = MC Key = C

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	510	0.3	15.3	64.5	11.3	7.5	1.2	64.5	0.1	0.0	1.1	63.9	65.1
Belgium (Flemish)	649	0.3	6.9	81.2	7.2	3.4	1.0	81.2	0.1	0.0	0.9	76.6	86.1
Bulgaria	413	3.8	14.6	61.6	5.2	8.0	6.7	61.6	0.5	0.2	6.0	58.8	65.0
Canada	1106	0.4	11.6	69.3	12.2	6.2	0.3	69.3	0.0	0.0	0.3	64.7	73.8
Chile	736	5.1	18.7	37.3	18.0	16.8	3.9	37.3	0.0	0.0	3.9	33.8	40.6
Chinese Taipei	719	0.4	3.9	83.7	7.0	4.7	0.2	83.7	0.0	0.0	0.2	85.3	82.1
Cyprus	385	1.6	19.7	58.8	8.8	9.5	1.5	58.8	0.0	0.0	1.5	58.5	59.0
Czech Republic	438	1.0	14.0	68.2	9.0	6.7	1.1	68.2	0.0	0.0	1.1	66.1	70.2
England	379	2.4	16.6	57.2	14.5	5.2	4.2	57.2	0.0	3.7	0.4	53.0	61.2
Finland	369	0.5	10.5	68.3	15.6	4.5	0.7	68.3	0.0	0.0	0.7	62.6	73.8
Hong Kong, SAR	648	0.5	9.6	84.6	4.1	0.9	0.3	84.6	0.0	0.1	0.2	86.2	82.9
Hungary	393	0.3	10.9	69.2	10.6	6.0	3.0	69.2	0.0	0.0	3.0	66.6	71.5
Indonesia	733	3.8	15.9	44.4	13.9	20.2	1.9	44.4	0.0	0.0	1.9	43.0	45.8
Iran, Islamic Rep.	665	3.2	12.2	46.3	20.5	14.1	3.7	46.3	0.0	0.3	3.4	41.4	49.6
Israel	515	3.3	17.9	51.6	14.8	8.2	4.2	51.6	0.0	0.4	3.8	47.6	55.4
Italy	411	2.0	21.4	53.6	13.6	6.3	3.1	53.6	0.3	0.0	2.8	49.7	58.4
Japan	599	0.8	11.2	77.6	9.2	0.9	0.1	77.6	0.0	0.0	0.1	71.5	83.5
Jordan	630	7.2	18.5	39.7	19.6	12.8	2.1	39.7	0.0	0.0	2.1	35.5	43.4
Korea, Rep. of	762	1.1	13.1	77.3	6.2	1.9	0.4	77.3	0.0	0.0	0.4	74.4	80.1
Latvia (LSS)	357	1.0	15.9	67.7	10.7	2.5	2.2	67.7	0.0	0.2	2.0	64.5	70.4
Lithuania	287	2.5	13.6	55.8	14.8	10.6	2.8	55.8	0.0	0.0	2.8	51.5	60.2
Macedonia, Rep. of	510	3.0	17.1	51.0	11.2	11.6	6.0	51.0	0.4	0.0	5.7	46.4	55.1
Malaysia	696	1.0	10.7	66.3	10.6	10.5	0.9	66.3	0.0	0.0	0.9	64.5	68.8
Moldova	466	4.2	21.4	53.7	8.1	11.7	0.9	53.7	0.0	0.0	0.9	49.4	59.6
Morocco	677	3.9	17.6	37.9	17.2	20.3	3.2	37.9	0.3	0.0	2.9	36.3	39.0
Netherlands	365	1.3	10.7	70.5	14.0	3.2	0.3	70.5	0.0	0.0	0.3	68.7	72.8
New Zealand	459	1.1	13.8	66.4	11.1	5.8	1.9	66.4	0.5	0.0	1.4	66.1	66.6
Philippines	828	8.4	22.7	28.7	16.5	23.0	0.7	28.7	0.2	0.0	0.5	28.8	28.7
Romania	429	3.9	20.2	54.1	9.4	9.8	2.6	54.1	0.0	0.2	2.4	50.5	57.7
Russian Federation	543	1.4	16.9	63.3	9.5	4.5	4.4	63.3	0.6	0.0	3.7	61.1	65.5
Singapore	628	0.0	5.4	87.6	5.2	1.7	0.0	87.6	0.0	0.0	0.0	88.5	86.9
Slovak Republic	443	0.5	12.6	76.7	5.6	2.9	1.7	76.7	0.0	0.0	1.7	71.7	81.8
Slovenia	393	0.9	17.7	69.7	6.5	4.3	0.8	69.7	0.0	0.0	0.8	62.1	78.3
South Africa	1055	6.5	13.7	18.0	19.2	41.3	1.3	18.0	0.2	0.1	1.0	16.6	19.8
Thailand	717	1.2	18.5	60.9	14.3	4.8	0.2	60.9	0.0	0.0	0.2	56.3	66.3
Tunisia	632	1.1	11.3	66.1	14.6	3.3	3.5	66.1	1.5	0.0	2.0	64.3	68.1
Turkey	976	6.9	20.0	40.6	14.2	15.5	2.7	40.6	0.0	0.1	2.6	39.0	41.8
United States	1127	3.8	16.1	52.5	17.1	9.5	1.0	52.5	0.1	0.1	0.9	51.8	53.2
International Avg.	.	2.4	14.7	60.1	11.9	9.0	2.0	60.1	0.1	0.1	1.7	57.3	62.8

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Fractions and Number Sense  
 Label: Multiply two decimals ( M022110 - M08 )  
 Item Type = SA Key = X

COUNTRY	N	10	11	70	71	72	79	99	V1	NOT REACH		1.GIRL	2.BOY
										ED	OMIT	% Right	% Right
Australia	510	23.9	0.0	13.7	1.2	5.5	45.7	10.0	23.9	0.0	10.0	24.9	22.7
Belgium (Flemish)	649	39.0	0.2	18.7	0.8	7.4	31.7	2.1	39.2	0.0	2.1	44.4	33.6
Bulgaria	413	56.3	0.0	7.2	0.7	1.6	22.9	11.4	56.3	0.2	11.2	60.6	51.1
Canada	1106	38.2	0.4	13.8	1.2	3.8	39.1	3.5	38.6	0.0	3.5	45.5	32.3
Chile	736	27.7	0.6	19.3	0.1	1.2	38.5	12.5	28.4	0.0	12.5	29.4	27.4
Chinese Taipei	719	67.6	0.6	10.9	0.5	2.6	16.7	1.1	68.2	0.0	1.1	67.6	68.8
Cyprus	387	28.6	0.5	13.3	2.0	4.5	36.9	14.2	29.1	0.0	14.2	32.1	26.2
Czech Republic	438	63.2	0.4	10.9	0.8	0.7	21.2	2.8	63.6	0.0	2.8	64.7	62.7
England	379	8.9	0.0	9.1	0.5	4.1	63.6	13.9	8.9	3.7	10.2	9.9	8.0
Finland	369	17.6	0.5	21.5	1.3	2.4	51.1	5.5	18.1	0.0	5.5	19.1	17.1
Hong Kong, SAR	648	62.0	0.2	5.4	0.9	3.0	24.1	4.5	62.2	0.1	4.3	67.2	57.1
Hungary	393	65.4	0.0	12.0	1.0	1.8	14.4	5.5	65.4	0.0	5.5	65.1	65.3
Indonesia	732	46.8	0.4	15.7	0.8	0.0	33.8	2.4	47.3	0.0	2.4	50.0	44.6
Iran, Islamic Rep.	665	42.7	1.1	11.2	0.4	3.6	34.4	6.5	43.8	0.3	6.2	47.4	41.4
Israel	515	19.9	1.0	12.7	2.3	8.1	31.3	24.7	20.9	0.4	24.4	18.3	23.4
Italy	411	49.5	0.2	14.9	0.9	1.1	27.3	6.1	49.7	0.0	6.1	49.3	50.1
Japan	599	61.5	0.1	12.0	1.3	0.7	22.1	2.3	61.6	0.0	2.3	60.3	62.9
Jordan	631	29.4	0.1	10.2	0.1	1.9	53.5	4.8	29.5	0.0	4.8	35.3	24.3
Korea, Rep. of	762	46.9	0.2	12.7	4.7	0.4	32.9	2.2	47.1	0.0	2.2	50.6	43.5
Latvia (LSS)	357	55.4	0.0	9.7	2.7	4.0	23.3	4.9	55.4	0.2	4.7	56.9	53.7
Lithuania	287	66.1	0.3	5.9	3.8	1.4	17.7	4.8	66.4	0.0	4.8	69.7	63.1
Macedonia, Rep. of	510	46.7	2.1	6.8	2.9	0.6	20.2	20.7	48.8	0.0	20.7	54.3	43.9
Malaysia	693	51.9	2.9	18.7	0.6	2.0	21.4	2.4	54.8	0.0	2.4	58.2	50.4
Moldova	466	61.3	0.2	2.4	4.0	0.1	20.3	11.7	61.5	0.0	11.7	63.1	59.4
Morocco	676	31.4	0.3	19.7	0.3	1.0	41.5	5.9	31.6	0.0	5.9	25.8	35.6
Netherlands	365	19.6	0.2	8.4	2.9	7.1	58.4	3.4	19.8	0.0	3.4	15.1	26.2
New Zealand	459	14.0	0.0	10.0	0.6	5.4	61.4	8.6	14.0	0.0	8.6	14.5	13.5
Philippines	828	36.7	0.0	16.4	1.2	0.3	40.3	5.0	36.7	0.0	5.0	38.7	34.5
Romania	429	43.2	1.1	16.4	1.6	3.5	24.7	9.6	44.3	0.2	9.4	42.7	45.9
Russian Federation	543	66.2	0.0	6.8	1.6	5.2	16.5	3.8	66.2	0.0	3.8	68.8	63.7
Singapore	628	42.5	0.5	22.3	0.8	3.2	28.8	2.0	43.0	0.0	2.0	46.0	40.3
Slovak Republic	443	73.2	0.0	6.1	1.9	2.4	11.8	4.5	73.2	0.0	4.5	71.8	74.6
Slovenia	393	61.6	0.6	16.0	0.6	1.2	16.7	3.4	62.2	0.0	3.4	63.8	60.4
South Africa	1056	3.6	0.0	4.2	0.0	2.2	81.8	8.1	3.6	0.1	8.0	4.7	2.4
Thailand	717	43.1	0.0	19.0	0.2	0.1	35.5	2.0	43.1	0.0	2.0	49.1	36.0
Tunisia	632	36.0	0.8	22.2	3.3	2.3	28.1	7.3	36.8	0.0	7.3	37.7	36.0
Turkey	977	31.0	0.0	21.6	0.1	0.3	37.3	9.7	31.0	0.1	9.5	31.6	30.7
United States	1127	45.6	0.4	13.9	1.0	2.0	34.0	3.2	45.9	0.1	3.2	49.6	42.5
International Avg.	.	42.7	0.4	12.9	1.4	2.6	33.2	6.8	43.2	0.1	6.6	44.8	41.4

V1 = % Scoring 1 or better V2 = % Scoring 2 or better V3 = % Scoring 3 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Data Representation, Analysis and Probability  
 Label: Graph showing information in table ( M022181 - M09 )  
 Item Type = MC Key = B

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	510	1.5	93.8	2.1	2.0	0.7	93.8	0.0	0.0	0.7	94.5	93.1
Belgium (Flemish)	649	6.0	90.4	1.2	1.9	0.6	90.4	0.0	0.0	0.6	89.0	91.8
Bulgaria	413	3.5	81.3	3.8	6.3	5.2	81.3	0.3	0.2	4.6	84.9	77.0
Canada	1106	3.2	90.1	2.6	3.6	0.5	90.1	0.1	0.0	0.3	91.9	88.4
Chile	736	8.5	71.6	8.2	8.3	3.4	71.6	0.0	0.0	3.4	70.0	73.0
Chinese Taipei	719	2.4	91.6	2.2	3.5	0.3	91.6	0.0	0.0	0.3	93.1	90.1
Cyprus	384	8.3	69.4	13.0	7.2	2.1	69.4	0.3	0.0	1.8	74.7	64.1
Czech Republic	438	3.3	91.3	1.2	3.4	0.8	91.3	0.0	0.0	0.8	93.7	89.2
England	379	4.0	83.3	4.5	3.6	4.6	83.3	0.0	3.7	0.9	86.3	80.4
Finland	369	3.1	88.6	3.1	4.8	0.3	88.6	0.0	0.0	0.3	94.3	83.0
Hong Kong, SAR	648	2.1	92.0	2.4	3.1	0.4	92.0	0.0	0.1	0.3	94.1	89.8
Hungary	393	2.8	91.7	2.3	1.7	1.5	91.7	0.0	0.0	1.5	92.8	90.5
Indonesia	733	8.5	66.8	10.0	14.2	0.5	66.8	0.0	0.0	0.5	64.6	69.0
Iran, Islamic Rep.	665	6.7	61.1	11.8	17.2	3.3	61.1	0.0	0.3	3.0	61.4	61.0
Israel	515	7.7	75.7	8.9	5.0	2.6	75.7	0.0	0.4	2.3	78.5	73.1
Italy	411	5.2	80.4	4.7	5.5	4.4	80.4	0.0	0.0	4.4	79.8	81.0
Japan	599	1.1	97.2	0.6	1.0	0.2	97.2	0.0	0.0	0.2	97.1	97.2
Jordan	631	6.9	65.1	14.4	10.5	3.1	65.1	0.3	0.0	2.8	70.6	60.2
Korea, Rep. of	762	2.2	94.8	1.0	1.8	0.3	94.8	0.0	0.0	0.3	94.5	95.0
Latvia (LSS)	357	4.3	84.5	4.5	4.4	2.4	84.5	0.6	0.2	1.6	84.5	84.3
Lithuania	287	4.7	84.2	4.9	3.4	2.8	84.2	0.0	0.0	2.8	85.9	82.5
Macedonia, Rep. of	510	10.0	51.9	7.5	15.9	14.7	51.9	0.2	0.0	14.5	51.6	52.2
Malaysia	696	2.8	89.7	2.8	4.2	0.5	89.7	0.0	0.0	0.5	89.4	89.9
Moldova	466	9.7	66.4	9.6	11.3	2.9	66.4	0.3	0.0	2.7	66.1	66.9
Morocco	676	8.7	45.4	7.4	9.7	28.8	45.4	0.1	0.0	28.7	43.9	46.5
Netherlands	365	2.9	92.1	0.6	4.1	0.4	92.1	0.0	0.0	0.4	88.4	97.1
New Zealand	459	5.7	85.8	3.3	4.4	0.9	85.8	0.3	0.0	0.6	87.0	84.6
Philippines	828	17.2	54.6	12.0	15.2	1.0	54.6	0.0	0.0	1.0	55.2	54.1
Romania	429	9.1	62.5	9.9	12.3	6.2	62.5	0.0	0.2	6.0	67.1	58.0
Russian Federation	543	5.0	82.9	3.7	5.0	3.4	82.9	0.2	0.0	3.3	82.2	83.6
Singapore	628	2.6	95.7	1.1	0.7	0.0	95.7	0.0	0.0	0.0	95.7	95.7
Slovak Republic	443	1.8	91.2	2.0	3.7	1.3	91.2	0.0	0.0	1.3	89.4	93.0
Slovenia	393	3.2	85.9	3.9	5.2	1.8	85.9	0.0	0.0	1.8	87.0	84.6
South Africa	1056	14.2	34.5	16.8	30.5	4.1	34.5	0.1	0.1	3.8	33.8	35.2
Thailand	717	6.2	75.8	5.8	10.9	1.3	75.8	0.0	0.0	1.3	80.4	70.3
Tunisia	632	12.1	67.5	6.5	10.9	3.0	67.5	1.0	0.0	2.0	62.5	72.8
Turkey	977	9.1	61.3	11.9	15.2	2.4	61.3	0.0	0.2	2.2	63.6	59.7
United States	1127	5.9	82.1	5.0	6.4	0.6	82.1	0.0	0.1	0.5	82.4	81.9
International Avg.	.	5.8	78.2	5.7	7.3	3.0	78.2	0.1	0.1	2.7	79.0	77.4

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Fractions and Number Sense  
 Label: Number of cars from rounded value ( M022113 - N11 )  
 Item Type = MC Key = C

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	491	1.8	2.0	93.6	1.7	1.0	93.6	0.5	0.2	0.2	92.5	94.9
Belgium (Flemish)	663	0.7	5.2	93.0	0.9	0.1	93.0	0.0	0.0	0.1	91.7	94.3
Bulgaria	404	2.2	5.6	86.1	2.1	4.0	86.1	0.0	1.7	2.3	85.0	87.2
Canada	1094	1.7	4.1	92.0	2.0	0.3	92.0	0.0	0.0	0.3	92.5	91.3
Chile	750	8.4	21.4	58.1	8.9	3.3	58.1	0.0	0.4	2.9	58.3	57.9
Chinese Taipei	724	8.8	5.9	82.1	3.1	0.0	82.1	0.0	0.0	0.0	83.6	80.6
Cyprus	387	6.1	20.4	63.8	8.7	1.0	63.8	0.5	0.0	0.5	63.1	64.5
Czech Republic	425	1.5	1.6	95.6	1.3	0.0	95.6	0.0	0.0	0.0	96.2	95.1
England	363	2.6	4.3	87.2	3.5	2.4	87.2	0.0	1.9	0.5	89.0	85.5
Finland	368	1.4	2.2	94.2	0.4	1.7	94.2	0.0	0.2	1.5	93.0	95.4
Hong Kong, SAR	646	4.9	5.4	86.1	2.7	0.9	86.1	0.0	0.4	0.6	88.5	83.8
Hungary	392	1.8	1.6	93.0	2.4	1.2	93.0	0.0	0.6	0.6	92.8	93.1
Indonesia	723	6.7	18.9	60.5	12.9	1.0	60.5	0.0	0.0	1.0	61.6	59.5
Iran, Islamic Rep.	664	17.6	34.4	25.3	17.6	5.0	25.3	0.0	0.1	4.9	24.3	26.0
Israel	524	6.3	10.2	71.6	7.8	4.1	71.6	0.0	1.0	3.0	67.5	75.2
Italy	412	6.3	14.2	72.4	5.5	1.6	72.4	0.0	0.2	1.4	72.3	72.4
Japan	590	13.7	4.3	79.1	2.7	0.2	79.1	0.0	0.2	0.0	82.5	75.9
Jordan	624	7.9	19.2	55.3	15.0	2.7	55.3	0.0	0.4	2.3	50.3	59.8
Korea, Rep. of	763	12.2	3.9	81.9	1.6	0.4	81.9	0.0	0.1	0.3	82.3	81.5
Latvia (LSS)	361	2.5	12.0	80.3	4.6	0.7	80.3	0.0	0.2	0.5	74.8	85.7
Lithuania	293	10.2	8.7	75.9	4.7	0.5	75.9	0.0	0.0	0.5	73.3	78.7
Macedonia, Rep. of	503	3.5	18.3	64.7	8.4	5.1	64.7	0.0	0.6	4.4	66.3	63.2
Malaysia	699	4.8	4.8	88.8	1.5	0.1	88.8	0.0	0.0	0.1	90.3	87.0
Moldova	462	11.6	14.2	48.8	20.5	4.9	48.8	0.5	0.8	3.6	54.8	41.4
Morocco	674	11.3	32.5	29.7	22.8	3.7	29.7	0.0	0.9	2.9	26.4	31.9
Netherlands	362	3.0	4.4	90.2	2.3	0.1	90.2	0.0	0.5	1.4	89.1	91.4
New Zealand	454	3.4	5.9	86.2	3.6	0.8	86.2	0.2	0.0	0.7	87.4	85.2
Philippines	836	17.0	17.3	51.1	13.7	0.9	51.1	0.0	0.3	0.6	54.9	47.2
Romania	430	3.7	16.4	72.4	5.7	1.9	72.4	0.0	0.5	1.4	70.6	74.2
Russian Federation	549	4.2	8.5	81.4	4.4	1.5	81.4	0.0	0.4	1.2	84.1	78.3
Singapore	620	2.2	1.7	95.8	0.1	0.2	95.8	0.2	0.0	0.0	95.7	95.8
Slovak Republic	442	2.9	4.2	92.2	0.7	0.0	92.2	0.0	0.0	0.0	93.7	90.7
Slovenia	390	1.3	3.4	93.9	1.2	0.2	93.9	0.0	0.0	0.2	95.1	92.6
South Africa	1023	16.0	18.7	38.0	24.4	2.9	38.0	0.7	0.6	1.6	40.6	35.0
Thailand	722	4.5	21.8	68.3	4.7	0.7	68.3	0.0	0.3	0.4	68.6	67.9
Tunisia	638	14.9	44.6	29.8	5.5	5.2	29.8	2.3	0.3	2.6	27.8	32.0
Turkey	980	10.8	20.4	59.0	8.6	1.2	59.0	0.0	0.1	1.1	55.0	61.9
United States	1112	4.1	4.7	89.1	1.8	0.3	89.1	0.0	0.1	0.3	91.8	86.4
International Avg.	.	6.4	11.8	73.9	6.3	1.6	73.9	0.1	0.3	1.2	73.9	73.7

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent



Mathematics: Geometry  
 Label: Position of point on number line ( M022116 - N12 )  
 Item Type = MC Key = A

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	491	49.9	9.9	29.7	10.0	0.5	49.9	0.2	0.2	0.0	49.6	50.2
Belgium (Flemish)	663	64.8	5.9	24.3	3.6	1.4	64.8	0.3	0.0	1.1	64.0	65.5
Bulgaria	404	39.8	6.3	40.0	8.9	5.0	39.8	0.3	1.8	2.9	37.8	41.8
Canada	1094	50.0	7.0	33.3	9.4	0.3	50.0	0.2	0.0	0.1	49.0	51.3
Chile	750	30.8	9.8	44.7	13.1	1.6	30.8	0.0	0.8	0.8	27.9	33.8
Chinese Taipei	724	56.3	9.6	29.5	4.3	0.3	56.3	0.0	0.0	0.3	51.3	61.9
Cyprus	386	37.6	10.2	40.7	10.3	1.2	37.6	0.4	0.3	0.5	36.1	38.8
Czech Republic	425	45.8	8.3	34.8	9.0	2.2	45.8	0.0	0.0	2.2	45.2	46.3
England	363	35.5	7.2	45.5	9.3	2.5	35.5	0.0	1.9	0.6	36.0	35.1
Finland	368	50.7	11.0	27.0	9.2	2.2	50.7	0.3	0.2	1.7	50.3	51.0
Hong Kong, SAR	646	62.9	9.2	23.8	3.3	0.8	62.9	0.0	0.4	0.5	64.3	61.6
Hungary	392	51.0	4.6	34.1	8.4	1.9	51.0	0.0	0.6	1.3	51.1	51.0
Indonesia	723	33.5	11.3	42.0	12.3	0.9	33.5	0.0	0.0	0.9	29.5	37.3
Iran, Islamic Rep.	664	27.3	9.8	42.0	19.2	1.7	27.3	0.0	0.1	1.6	22.8	30.3
Israel	524	32.3	9.4	43.8	10.6	3.8	32.3	0.4	1.2	2.3	23.3	40.5
Italy	412	33.6	10.6	42.3	10.3	3.1	33.6	0.0	0.2	2.9	32.6	34.4
Japan	590	66.3	9.2	19.9	4.0	0.5	66.3	0.0	0.2	0.4	68.2	64.5
Jordan	624	20.0	12.2	50.4	15.7	1.7	20.0	0.5	0.4	0.8	11.7	27.6
Korea, Rep. of	763	67.2	7.8	21.3	3.6	0.1	67.2	0.0	0.1	0.0	67.0	67.5
Latvia (LSS)	361	32.5	6.6	49.9	8.6	2.4	32.5	0.4	0.2	1.7	32.2	32.7
Lithuania	293	39.4	8.2	39.2	11.3	1.8	39.4	0.0	0.0	1.8	37.8	41.2
Macedonia, Rep. of	503	31.3	9.7	38.6	15.6	4.8	31.3	0.2	0.9	3.7	33.4	29.1
Malaysia	699	42.2	6.6	42.6	8.1	0.5	42.2	0.0	0.0	0.5	41.6	42.9
Moldova	462	38.7	13.6	31.1	13.1	3.6	38.7	0.0	1.4	2.2	38.0	39.4
Morocco	674	15.0	9.5	53.8	19.2	2.5	15.0	0.0	1.0	1.5	17.2	13.6
Netherlands	362	66.7	6.0	22.0	5.0	0.3	66.7	0.2	0.1	0.0	68.2	65.1
New Zealand	454	47.2	8.3	33.8	9.8	1.0	47.2	0.2	0.0	0.7	52.9	41.6
Philippines	836	25.8	17.8	34.2	21.0	1.2	25.8	0.1	0.4	0.7	27.8	23.7
Romania	430	30.2	9.8	46.9	10.4	2.6	30.2	0.0	0.5	2.1	34.2	26.3
Russian Federation	549	59.7	10.0	25.5	3.4	1.4	59.7	0.0	0.4	1.0	61.1	58.0
Singapore	620	49.7	7.3	35.4	7.6	0.0	49.7	0.0	0.0	0.0	51.8	47.8
Slovak Republic	442	48.0	7.2	35.5	7.1	2.2	48.0	0.0	0.0	2.2	49.5	46.6
Slovenia	390	46.4	7.2	35.4	9.5	1.4	46.4	0.0	0.0	1.4	46.5	46.3
South Africa	1023	22.5	17.8	32.8	24.6	2.3	22.5	0.5	0.8	1.0	22.8	22.2
Thailand	722	46.1	10.1	32.5	10.6	0.8	46.1	0.0	0.3	0.5	47.0	45.0
Tunisia	638	43.7	8.8	33.3	10.5	3.7	43.7	1.2	0.8	1.8	40.2	47.6
Turkey	980	27.3	11.5	45.3	13.4	2.5	27.3	0.3	0.2	2.0	26.7	27.6
United States	1112	42.3	10.3	37.5	9.5	0.5	42.3	0.1	0.1	0.4	37.4	47.3
International Avg.	.	42.4	9.4	36.2	10.3	1.8	42.4	0.2	0.4	1.2	41.7	43.0

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Algebra  
 Label: Value of expression substituting x=3 ( M022118 - N13 )  
 Item Type = SA Key = X

COUNTRY	N	10	11	19	70	71	72	73	77	79	99	V1	NOT	OMIT	1.GIRL	2.BOY
													REACH		% Right	% Right
Australia	491	52.7	7.8	0.2	6.3	1.5	5.3	0.5	0.0	17.6	8.0	60.8	0.2	7.8	64.9	55.8
Belgium (Flemish)	663	60.4	6.1	0.3	5.2	0.8	2.4	1.8	0.0	16.6	6.4	66.7	0.0	6.4	66.2	67.2
Bulgaria	404	59.0	5.9	0.4	3.0	1.0	1.4	0.2	0.0	11.6	17.5	65.2	2.0	15.5	60.9	69.6
Canada	1094	59.6	6.8	0.1	1.3	1.4	3.0	0.2	0.0	22.3	5.2	66.5	0.0	5.2	67.3	65.6
Chile	750	8.5	5.0	0.0	4.2	4.1	6.0	3.2	1.9	28.2	38.8	13.5	0.8	38.0	14.5	12.6
Chinese Taipei	724	80.3	0.7	0.0	5.2	0.7	3.7	1.3	0.0	4.6	3.5	81.0	0.0	3.5	81.6	80.3
Cyprus	387	42.6	4.6	0.0	13.0	2.0	0.7	1.4	0.0	16.2	19.5	47.2	0.3	19.3	54.2	41.3
Czech Republic	425	51.5	9.8	1.0	2.9	0.8	2.8	0.4	0.0	10.2	20.7	62.3	0.0	20.7	66.5	58.4
England	363	40.3	5.2	0.4	5.3	2.9	6.2	0.9	0.0	24.8	13.9	45.9	1.9	12.1	44.9	46.9
Finland	368	40.7	2.9	0.0	3.8	13.2	2.3	2.1	0.0	23.4	11.6	43.6	0.2	11.4	42.6	44.6
Hong Kong, SAR	646	78.3	2.4	0.2	6.0	0.5	0.5	0.3	0.0	7.0	4.9	80.9	0.4	4.5	82.3	79.6
Hungary	392	68.3	11.8	0.2	1.6	0.8	2.7	0.5	0.0	8.4	5.7	80.3	0.6	5.1	84.4	76.7
Indonesia	723	19.1	9.3	0.0	5.4	3.5	16.7	6.1	0.0	25.9	14.0	28.5	0.0	14.0	28.0	28.9
Iran, Islamic Rep.	664	23.5	4.4	0.0	5.0	1.6	14.2	0.3	0.0	26.8	24.3	27.9	0.1	24.1	24.3	30.3
Israel	524	48.1	4.7	0.2	4.5	0.9	3.7	1.8	0.0	18.8	17.2	53.1	1.2	16.0	52.8	53.4
Italy	412	38.6	7.6	0.3	1.7	1.6	8.1	2.6	0.0	18.4	21.1	46.5	0.2	20.9	51.7	41.7
Japan	590	67.5	1.9	0.0	7.0	0.3	5.5	1.1	0.0	10.9	5.8	69.4	0.2	5.7	68.6	70.2
Jordan	624	29.8	10.2	0.3	2.9	3.4	14.8	4.0	0.0	21.8	12.7	40.3	0.4	12.3	43.8	37.1
Korea, Rep. of	763	73.3	1.8	0.0	7.1	1.7	3.7	0.3	0.0	8.8	3.2	75.2	0.1	3.0	78.2	72.2
Latvia (LSS)	361	60.8	2.7	0.4	5.0	1.0	5.3	0.5	0.0	11.7	12.4	63.9	0.2	12.2	64.7	63.1
Lithuania	293	65.1	0.9	0.9	0.4	0.0	3.4	0.0	0.0	12.5	16.7	66.9	0.0	16.7	68.0	65.8
Macedonia, Rep. of	503	50.2	1.9	1.1	3.5	0.4	1.2	0.2	0.0	11.8	29.7	53.3	0.9	28.8	58.0	48.7
Malaysia	699	42.1	5.4	0.4	6.5	5.5	12.7	1.7	0.0	16.9	8.8	47.9	0.0	8.8	50.0	45.4
Moldova	462	55.2	2.0	0.0	1.8	0.0	0.2	0.1	0.0	17.6	23.0	57.2	1.4	21.5	58.0	56.2
Morocco	674	4.0	7.2	0.6	1.3	2.2	16.4	0.6	0.0	33.6	34.1	11.8	1.2	32.9	9.1	13.5
Netherlands	362	46.6	3.7	0.0	4.2	0.0	4.3	3.5	0.0	30.0	7.7	50.3	0.1	7.6	54.1	45.9
New Zealand	454	35.8	6.1	0.0	1.9	6.0	8.0	2.6	0.0	28.4	11.1	42.0	0.0	11.1	48.9	35.2
Philippines	836	10.4	2.3	2.0	3.9	1.6	26.4	5.4	0.0	29.1	18.8	14.7	0.4	18.4	18.4	10.9
Romania	430	56.2	3.2	0.0	5.9	0.8	1.3	1.6	0.0	12.4	18.6	59.4	0.7	17.9	58.1	60.7
Russian Federation	549	77.2	1.8	0.0	4.2	0.2	0.8	1.0	0.0	5.8	9.0	79.0	0.4	8.7	82.8	74.6
Singapore	620	79.0	3.7	0.0	7.5	0.0	2.1	1.0	0.0	4.7	2.1	82.7	0.0	2.1	84.3	81.2
Slovak Republic	442	64.3	7.7	0.0	1.2	0.0	3.0	0.0	0.0	13.1	10.6	72.0	0.0	10.6	75.1	68.9
Slovenia	390	68.7	6.2	0.6	6.1	0.2	1.3	1.2	0.0	10.1	5.6	75.5	0.0	5.6	75.5	75.5
South Africa	1023	5.3	3.6	0.3	1.6	2.2	36.3	10.3	0.0	29.6	10.9	9.2	0.8	10.1	9.1	9.4
Thailand	722	36.7	10.4	0.0	0.0	1.7	1.8	3.2	0.0	37.0	9.4	47.0	0.3	9.1	48.0	45.9
Tunisia	638	18.3	24.2	4.2	4.5	1.8	11.0	0.6	0.0	24.6	10.8	46.8	0.8	9.9	48.7	44.5
Turkey	980	30.4	4.6	0.3	2.4	0.6	1.7	1.5	0.0	30.1	28.4	35.4	0.2	28.2	41.2	31.2
United States	1112	55.1	6.2	0.0	7.5	0.9	5.4	1.0	0.0	15.7	8.3	61.3	0.1	8.2	63.6	58.9
International Avg.	.	47.5	5.6	0.4	4.2	1.8	6.5	1.7	0.1	18.3	13.9	53.4	0.4	13.5	55.1	51.8

V1 = % Scoring 1 or better V2 = % Scoring 2 or better V3 = % Scoring 3 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Fractions and Number Sense  
 Label: List of equivalent fractions ( M022121 - N14 )  
 Item Type = MC Key = B

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	491	20.3	63.0	5.2	10.4	1.1	63.0	0.2	0.2	0.6	65.9	59.5
Belgium (Flemish)	663	7.3	82.8	5.6	3.0	1.3	82.8	0.1	0.0	1.2	83.1	82.5
Bulgaria	404	12.4	67.8	9.6	4.2	6.0	67.8	0.1	2.0	3.8	66.9	68.7
Canada	1094	15.7	71.8	6.4	5.2	0.9	71.8	0.2	0.1	0.6	73.4	70.0
Chile	750	28.5	41.5	12.8	10.7	6.5	41.5	0.0	0.8	5.7	41.1	41.9
Chinese Taipei	724	7.2	85.2	4.5	3.0	0.1	85.2	0.1	0.0	0.0	84.9	85.5
Cyprus	386	21.6	64.4	7.0	5.5	1.5	64.4	0.9	0.3	0.3	61.5	66.8
Czech Republic	425	17.3	60.2	12.4	6.2	3.9	60.2	0.0	0.0	3.8	62.8	57.9
England	363	25.8	50.7	6.8	12.1	4.4	50.7	0.7	1.9	1.9	46.6	54.6
Finland	368	11.8	61.1	8.0	14.4	4.7	61.1	0.0	0.2	4.6	57.4	64.5
Hong Kong, SAR	646	7.3	84.5	3.8	3.7	0.7	84.5	0.2	0.4	0.2	82.7	86.1
Hungary	392	12.0	69.6	7.5	6.6	4.4	69.6	0.6	0.6	3.2	67.4	71.1
Indonesia	723	30.2	47.7	12.3	7.6	2.2	47.7	0.0	0.0	2.1	48.8	46.7
Iran, Islamic Rep.	664	27.0	49.0	14.2	7.3	2.6	49.0	0.0	0.1	2.4	49.7	48.5
Israel	524	16.9	59.0	11.9	7.6	4.6	59.0	0.2	1.2	3.2	58.2	59.8
Italy	412	28.9	56.8	6.1	5.6	2.5	56.8	0.0	0.2	2.3	57.6	56.1
Japan	590	8.2	82.0	5.8	3.3	0.7	82.0	0.0	0.2	0.5	82.2	81.8
Jordan	624	16.2	55.0	15.8	9.9	3.1	55.0	1.0	0.5	1.5	54.1	55.9
Korea, Rep. of	763	7.3	85.8	3.2	3.2	0.5	85.8	0.0	0.1	0.4	88.2	83.6
Latvia (LSS)	361	13.2	66.4	11.0	4.4	5.0	66.4	1.9	0.2	2.9	64.8	68.0
Lithuania	293	15.9	65.9	9.4	3.1	5.7	65.9	0.0	0.0	5.7	67.4	64.4
Macedonia, Rep. of	503	22.5	44.4	13.1	10.9	9.2	44.4	0.7	0.9	7.5	43.7	45.0
Malaysia	699	20.8	67.7	6.3	4.5	0.7	67.7	0.0	0.0	0.7	70.8	64.0
Moldova	462	23.0	49.9	13.4	6.9	6.9	49.9	0.6	1.9	4.4	50.1	49.5
Morocco	674	24.7	31.7	22.6	14.9	6.2	31.7	0.0	1.3	4.9	29.2	33.1
Netherlands	362	13.4	74.0	3.2	9.0	0.4	74.0	0.0	0.1	0.3	73.1	75.0
New Zealand	454	22.1	51.4	11.7	12.7	2.1	51.4	0.9	0.0	1.2	55.4	47.5
Philippines	836	35.1	41.5	12.8	9.5	1.1	41.5	0.1	0.4	0.7	41.9	41.2
Romania	430	22.1	54.7	12.6	5.4	5.1	54.7	1.7	0.7	2.8	54.9	54.5
Russian Federation	549	14.0	70.6	6.4	5.3	3.8	70.6	1.2	0.7	1.9	72.0	68.9
Singapore	620	10.3	84.3	2.9	2.1	0.4	84.3	0.2	0.0	0.2	86.1	82.6
Slovak Republic	442	14.9	66.9	8.3	7.0	2.8	66.9	0.2	0.0	2.6	72.5	61.5
Slovenia	390	16.6	64.8	11.9	5.0	1.7	64.8	1.1	0.0	0.6	61.4	68.3
South Africa	1023	25.6	34.2	24.2	12.0	4.0	34.2	0.8	1.2	2.0	37.5	30.2
Thailand	722	25.7	56.7	11.3	5.8	0.6	56.7	0.0	0.3	0.3	59.8	53.0
Tunisia	638	10.1	48.7	17.5	11.1	12.6	48.7	8.9	1.0	2.7	50.3	46.8
Turkey	980	27.9	44.8	14.3	10.5	2.5	44.8	0.0	0.2	2.4	47.1	43.3
United States	1112	18.0	63.3	10.6	7.7	0.5	63.3	0.0	0.1	0.4	62.2	64.4
International Avg.	.	18.4	61.0	10.1	7.3	3.2	61.0	0.6	0.5	2.2	61.4	60.6

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Measurement  
 Label: Angle closest to 45 degrees ( M022124 - N15 )  
 Item Type = MC Key = D

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	491	17.5	10.6	2.7	67.8	1.4	67.8	0.6	0.2	0.6	63.5	73.0
Belgium (Flemish)	663	20.6	5.1	3.0	70.4	0.8	70.4	0.3	0.0	0.5	68.2	72.6
Bulgaria	404	23.0	7.2	4.4	61.1	4.2	61.1	0.0	2.2	2.0	53.7	68.5
Canada	1094	15.0	6.0	5.3	73.4	0.3	73.4	0.0	0.1	0.2	71.6	75.5
Chile	750	17.5	14.8	16.4	47.9	3.5	47.9	0.0	0.8	2.6	44.3	51.7
Chinese Taipei	724	13.2	5.6	2.0	79.0	0.2	79.0	0.2	0.0	0.0	74.2	84.3
Cyprus	386	24.6	10.9	8.0	56.0	0.5	56.0	0.0	0.3	0.3	52.5	58.9
Czech Republic	425	22.1	11.4	5.3	61.2	0.0	61.2	0.0	0.0	0.0	54.5	67.2
England	363	23.4	8.2	5.1	61.1	2.3	61.1	0.0	1.9	0.4	57.5	64.4
Finland	368	13.4	6.7	4.0	72.9	3.1	72.9	0.0	0.2	2.9	70.9	74.8
Hong Kong, SAR	646	19.9	5.9	1.2	72.7	0.4	72.7	0.0	0.4	0.0	69.4	75.7
Hungary	392	15.0	8.5	2.4	71.8	2.3	71.8	0.8	0.6	0.9	70.6	72.6
Indonesia	722	21.9	15.8	10.2	51.4	0.7	51.4	0.0	0.0	0.7	44.6	57.6
Iran, Islamic Rep.	664	20.1	11.3	6.0	61.2	1.4	61.2	0.0	0.1	1.2	54.7	65.6
Israel	524	19.6	13.7	12.1	51.3	3.3	51.3	0.1	1.4	1.8	47.2	55.1
Italy	412	23.9	14.8	9.4	50.6	1.3	50.6	0.0	0.2	1.0	49.2	51.9
Japan	590	13.4	3.1	2.0	81.0	0.5	81.0	0.0	0.2	0.4	81.3	80.8
Jordan	624	23.7	16.2	13.7	44.7	1.8	44.7	0.0	0.5	1.3	41.9	47.2
Korea, Rep. of	763	14.1	2.6	2.3	80.6	0.4	80.6	0.3	0.1	0.0	81.8	79.4
Latvia (LSS)	361	17.0	6.1	5.3	70.3	1.3	70.3	0.5	0.5	0.3	68.0	72.6
Lithuania	293	27.1	9.7	4.3	57.7	1.2	57.7	0.0	0.0	1.2	45.5	71.3
Macedonia, Rep. of	503	16.5	12.2	6.5	59.9	4.9	59.9	0.5	1.0	3.4	56.9	62.8
Malaysia	699	21.2	8.9	6.1	63.1	0.6	63.1	0.0	0.0	0.6	60.7	66.0
Moldova	462	17.3	11.6	8.9	58.3	4.0	58.3	0.4	2.1	1.5	58.3	58.3
Morocco	674	17.1	21.2	21.2	38.7	1.9	38.7	0.0	1.5	0.4	32.3	42.8
Netherlands	362	26.2	13.5	6.3	52.3	1.7	52.3	0.0	0.1	1.6	50.5	54.3
New Zealand	454	20.8	15.6	7.3	55.7	0.7	55.7	0.0	0.0	0.7	50.8	60.4
Philippines	836	23.8	21.8	20.7	32.5	1.2	32.5	0.0	0.5	0.7	31.9	33.1
Romania	430	24.0	6.6	5.2	62.2	2.0	62.2	0.0	0.7	1.3	65.4	59.1
Russian Federation	549	17.8	4.7	3.1	72.7	1.6	72.7	0.1	0.7	0.8	69.4	76.6
Singapore	620	20.8	6.3	0.9	71.9	0.1	71.9	0.0	0.0	0.1	71.3	72.5
Slovak Republic	442	12.5	7.3	2.9	76.4	1.0	76.4	0.3	0.0	0.7	75.4	77.3
Slovenia	390	22.7	9.7	5.1	60.8	1.6	60.8	0.6	0.0	1.0	53.4	68.5
South Africa	1023	16.8	24.8	24.2	31.8	2.4	31.8	0.1	1.6	0.7	29.9	34.1
Thailand	722	21.0	10.6	3.9	64.0	0.4	64.0	0.0	0.3	0.1	61.7	66.6
Tunisia	638	25.3	13.4	3.4	53.4	4.5	53.4	2.0	1.0	1.5	49.7	57.6
Turkey	980	23.5	15.4	15.1	45.0	1.0	45.0	0.0	0.2	0.8	44.8	45.2
United States	1112	21.5	12.8	13.5	51.3	1.0	51.3	0.0	0.1	0.8	50.9	51.6
International Avg.	.	19.9	10.8	7.3	60.4	1.6	60.4	0.2	0.5	0.9	57.3	63.4

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Fractions and Number Sense  
 Label: Number of marbles in bag ( M022126 - N16 )  
 Item Type = MC Key = B

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	491	8.6	47.8	24.3	15.9	3.4	47.8	0.2	0.2	3.0	47.4	48.3
Belgium (Flemish)	663	14.6	51.7	11.2	20.7	1.8	51.7	0.5	0.0	1.4	47.2	56.1
Bulgaria	404	21.0	42.5	13.2	13.0	10.3	42.5	0.0	2.2	8.1	38.8	46.2
Canada	1094	17.7	45.0	20.5	16.1	0.7	45.0	0.1	0.1	0.5	42.1	48.3
Chile	750	18.6	29.7	28.0	18.4	5.5	29.7	0.0	1.0	4.5	29.1	30.3
Chinese Taipei	724	7.2	60.0	11.8	19.9	1.2	60.0	0.0	0.0	1.2	57.7	62.5
Cyprus	386	23.1	35.9	26.3	12.2	2.4	35.9	0.3	0.3	1.9	36.1	35.7
Czech Republic	425	16.0	44.4	21.9	14.6	3.1	44.4	0.0	0.0	3.1	38.2	50.0
England	363	16.1	45.8	20.4	14.3	3.4	45.8	0.0	1.9	1.5	41.2	50.2
Finland	368	17.3	52.7	18.6	9.3	2.1	52.7	0.0	0.2	1.9	50.6	54.7
Hong Kong, SAR	646	6.5	59.8	13.3	18.0	2.4	59.8	0.5	0.4	1.6	57.8	61.7
Hungary	392	16.0	44.6	15.7	17.9	5.8	44.6	0.0	0.6	5.2	40.8	47.8
Indonesia	722	25.8	37.4	19.6	15.1	2.1	37.4	0.0	0.0	2.1	37.7	37.1
Iran, Islamic Rep.	664	32.3	31.2	17.0	14.8	4.7	31.2	0.0	0.3	4.4	26.5	34.3
Israel	524	16.6	41.7	20.4	15.5	5.8	41.7	0.0	1.6	4.3	36.9	46.1
Italy	412	22.1	37.7	21.0	13.8	5.4	37.7	0.0	0.2	5.2	38.4	37.1
Japan	590	8.4	64.5	13.5	12.8	0.9	64.5	0.0	0.2	0.7	66.5	62.6
Jordan	624	32.4	32.8	17.8	14.1	3.0	32.8	0.9	0.5	1.6	29.5	35.8
Korea, Rep. of	763	11.8	64.4	9.5	13.2	0.9	64.4	0.0	0.1	0.8	60.8	67.9
Latvia (LSS)	361	15.5	40.7	18.6	18.8	6.5	40.7	0.0	0.5	6.0	36.8	44.5
Lithuania	293	23.3	31.6	14.0	25.1	6.0	31.6	0.0	0.0	6.0	27.2	36.6
Macedonia, Rep. of	503	21.1	34.5	20.2	14.0	10.1	34.5	0.2	1.3	8.6	33.3	35.7
Malaysia	699	19.7	47.0	17.4	12.9	3.1	47.0	0.0	0.1	3.0	47.9	45.8
Moldova	462	24.4	41.1	11.4	15.5	7.6	41.1	0.3	2.1	5.2	39.5	43.1
Morocco	674	37.5	33.9	13.2	11.0	4.4	33.9	0.0	1.8	2.7	32.0	35.2
Netherlands	362	13.5	53.2	16.5	15.9	0.9	53.2	0.1	0.1	0.7	50.8	55.9
New Zealand	454	13.6	48.8	19.7	17.1	0.9	48.8	0.2	0.0	0.7	50.1	47.5
Philippines	836	31.9	42.6	15.0	8.7	1.8	42.6	0.4	0.5	0.9	39.1	46.3
Romania	430	16.8	38.3	19.5	21.0	4.3	38.3	0.0	0.9	3.4	36.8	39.9
Russian Federation	549	23.2	42.1	12.0	15.3	7.4	42.1	0.6	0.9	5.9	38.6	46.3
Singapore	620	7.4	81.3	6.6	4.4	0.4	81.3	0.0	0.0	0.4	82.5	80.2
Slovak Republic	442	19.2	45.3	20.0	8.5	7.1	45.3	0.0	0.0	7.1	40.9	49.5
Slovenia	390	17.9	38.7	21.1	15.1	7.2	38.7	0.0	0.0	7.2	35.7	41.7
South Africa	1023	36.6	31.2	18.6	11.2	2.4	31.2	0.1	1.7	0.7	31.3	31.1
Thailand	722	26.9	45.1	14.2	12.2	1.5	45.1	0.0	0.3	1.2	43.4	47.1
Tunisia	638	30.8	32.7	14.1	17.1	5.2	32.7	0.2	1.4	3.6	29.8	36.1
Turkey	980	20.4	38.2	17.3	21.6	2.5	38.2	0.0	0.2	2.3	38.6	37.9
United States	1112	14.3	40.5	27.8	16.4	1.0	40.5	0.0	0.1	0.8	39.2	41.9
International Avg.	.	19.6	44.1	17.4	15.0	3.8	44.1	0.1	0.6	3.1	42.0	46.2

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Fractions and Number Sense  
 Label: Amount of paint left ( M022128 - N17 )  
 Item Type = MC Key = B

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	491	15.7	31.9	18.4	31.7	2.2	31.9	0.2	0.2	1.8	34.1	29.3
Belgium (Flemish)	663	14.0	38.6	13.7	33.5	0.1	38.6	0.0	0.0	0.1	40.4	36.9
Bulgaria	404	13.3	39.3	10.9	30.5	6.0	39.3	0.0	2.9	3.0	40.1	38.4
Canada	1094	13.5	36.5	17.8	31.7	0.6	36.5	0.1	0.1	0.4	40.6	31.7
Chile	750	34.1	21.8	18.0	21.0	5.0	21.8	0.0	1.3	3.7	22.6	21.0
Chinese Taipei	724	5.1	62.8	11.8	20.1	0.2	62.8	0.0	0.0	0.2	64.5	61.0
Cyprus	385	18.6	32.7	20.1	26.8	1.8	32.7	0.3	0.3	1.2	38.2	28.1
Czech Republic	425	12.3	43.0	15.9	26.7	2.0	43.0	0.0	0.4	1.6	45.0	41.1
England	363	20.2	27.2	24.7	25.2	2.8	27.2	0.0	1.9	0.9	25.9	28.3
Finland	368	12.9	33.5	19.9	31.9	1.7	33.5	0.0	0.2	1.5	28.6	38.2
Hong Kong, SAR	646	5.7	55.8	14.6	22.6	1.3	55.8	0.0	0.4	1.0	56.8	54.8
Hungary	392	9.7	39.6	11.4	36.4	2.9	39.6	0.0	0.9	2.0	35.6	43.0
Indonesia	722	26.2	22.5	19.5	30.1	1.8	22.5	0.0	0.0	1.8	26.2	19.1
Iran, Islamic Rep.	664	23.0	24.7	21.8	28.0	2.5	24.7	0.0	0.4	2.0	25.0	24.6
Israel	524	23.1	24.7	19.5	27.3	5.3	24.7	0.0	1.9	3.4	24.2	25.3
Italy	412	21.9	27.3	20.2	28.4	2.2	27.3	0.0	0.2	2.0	29.9	24.9
Japan	590	8.1	46.7	14.9	29.3	1.0	46.7	0.0	0.2	0.8	49.4	44.2
Jordan	624	28.0	20.9	22.8	26.1	2.2	20.9	0.0	0.5	1.7	18.7	23.0
Korea, Rep. of	763	5.6	53.2	17.0	23.8	0.4	53.2	0.0	0.1	0.3	55.3	51.1
Latvia (LSS)	361	16.4	30.8	19.1	31.2	2.5	30.8	0.0	1.1	1.4	33.1	28.6
Lithuania	293	15.7	39.0	12.7	29.9	2.7	39.0	0.0	0.0	2.7	42.7	35.0
Macedonia, Rep. of	503	23.1	28.1	13.1	28.9	6.8	28.1	0.0	1.6	5.3	29.8	26.4
Malaysia	699	8.3	54.3	16.7	19.3	1.4	54.3	0.0	0.6	0.8	57.1	50.9
Moldova	462	31.3	29.0	11.0	23.9	4.8	29.0	0.2	2.6	1.9	30.1	27.8
Morocco	674	30.7	23.1	24.0	17.5	4.8	23.1	0.3	2.2	2.3	22.4	23.3
Netherlands	362	9.7	48.7	16.6	24.2	0.8	48.7	0.0	0.3	0.6	50.5	46.5
New Zealand	454	24.8	29.0	23.8	21.1	1.3	29.0	0.5	0.2	0.6	28.7	29.4
Philippines	836	34.8	19.9	19.3	24.6	1.4	19.9	0.4	0.6	0.5	19.4	20.4
Romania	430	25.2	29.1	16.1	26.1	3.5	29.1	0.0	2.0	1.5	31.0	27.3
Russian Federation	549	14.7	39.2	11.4	30.6	4.2	39.2	0.2	1.0	3.0	43.9	33.6
Singapore	620	4.0	64.6	10.3	21.1	0.0	64.6	0.0	0.0	0.0	73.3	56.3
Slovak Republic	442	13.0	38.5	12.6	32.8	3.1	38.5	0.0	0.0	3.1	40.5	36.5
Slovenia	390	10.1	35.8	13.9	36.9	3.3	35.8	0.0	0.0	3.3	31.9	39.8
South Africa	1023	46.5	17.6	17.6	14.8	3.3	17.6	0.3	1.7	1.4	17.8	17.4
Thailand	.	.	.	.	.	.	.	.	.	.	.	.
Tunisia	638	13.9	26.2	27.3	27.6	5.1	26.2	0.2	1.8	3.1	23.5	29.3
Turkey	980	21.3	29.3	22.8	25.4	1.2	29.3	0.0	0.2	1.0	30.4	28.6
United States	1112	18.0	34.8	17.1	29.6	0.5	34.8	0.0	0.2	0.3	33.6	36.1
International Avg.	.	18.2	35.1	17.3	26.9	2.5	35.1	0.1	0.8	1.7	36.2	34.0

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Data Representation, Analysis and Probability  
 Label: Probability of drawing chip ( M022249 - N18 )  
 Item Type = MC Key = C

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	491	8.7	12.4	72.6	4.4	1.9	72.6	0.2	0.2	1.5	73.6	71.5
Belgium (Flemish)	663	6.4	8.3	81.8	3.5	0.0	81.8	0.0	0.0	0.0	83.1	80.5
Bulgaria	404	16.1	27.0	45.8	3.3	7.8	45.8	0.0	2.9	4.9	42.6	49.0
Canada	1094	9.2	13.1	74.0	2.7	1.0	74.0	0.0	0.1	0.9	73.7	74.5
Chile	750	14.3	42.5	30.8	5.9	6.5	30.8	0.1	2.4	3.9	29.0	32.7
Chinese Taipei	724	19.0	8.5	70.6	1.8	0.2	70.6	0.0	0.0	0.2	72.5	68.4
Cyprus	386	11.5	30.3	50.9	6.2	1.1	50.9	0.1	0.3	0.7	48.6	52.8
Czech Republic	425	7.5	30.0	49.3	10.9	2.3	49.3	0.0	0.7	1.6	46.6	51.6
England	363	9.1	10.2	73.1	5.2	2.4	73.1	0.0	2.1	0.3	66.6	79.2
Finland	368	7.9	19.4	66.1	4.3	2.4	66.1	0.0	0.6	1.8	62.7	69.3
Hong Kong, SAR	646	8.5	18.0	65.3	7.1	1.1	65.3	0.0	0.5	0.5	64.6	65.9
Hungary	392	16.0	22.1	52.6	4.6	4.7	52.6	0.0	1.5	3.2	51.1	53.5
Indonesia	725	20.9	32.9	38.7	6.0	1.6	38.7	0.0	0.0	1.5	40.1	37.5
Iran, Islamic Rep.	664	14.3	43.7	32.7	7.5	1.8	32.7	0.0	0.4	1.4	30.2	34.3
Israel	524	11.6	28.5	49.0	4.5	6.4	49.0	0.4	2.1	3.9	48.7	49.3
Italy	412	10.6	21.0	61.0	4.3	3.2	61.0	0.0	0.5	2.7	65.0	57.2
Japan	590	9.8	7.6	77.5	4.7	0.4	77.5	0.0	0.2	0.2	74.2	80.6
Jordan	624	14.3	36.0	38.0	9.4	2.4	38.0	0.4	0.5	1.5	40.1	36.0
Korea, Rep. of	763	3.8	2.1	92.3	1.4	0.3	92.3	0.0	0.1	0.1	92.6	92.1
Latvia (LSS)	361	30.8	29.3	27.4	5.3	7.2	27.4	0.0	1.1	6.1	26.8	28.0
Lithuania	293	44.4	36.5	11.0	2.9	5.3	11.0	0.3	0.3	4.6	11.0	11.0
Macedonia, Rep. of	503	7.3	54.2	24.8	5.1	8.6	24.8	0.0	1.6	7.0	22.6	26.9
Malaysia	699	11.2	38.1	41.6	5.9	3.2	41.6	0.0	0.6	2.6	41.9	41.2
Moldova	462	12.5	53.0	21.6	5.1	7.9	21.6	0.0	2.7	5.2	19.0	24.7
Morocco	674	11.8	50.8	22.1	9.5	5.9	22.1	0.0	2.6	3.3	17.4	24.8
Netherlands	362	19.6	7.6	63.9	7.4	1.4	63.9	0.2	0.3	0.9	64.3	63.5
New Zealand	453	14.8	18.1	59.5	6.6	0.9	59.5	0.0	0.2	0.7	64.1	55.1
Philippines	836	19.7	45.5	22.8	11.1	1.0	22.8	0.0	0.6	0.4	18.7	27.0
Romania	430	12.1	47.8	31.9	4.0	4.2	31.9	0.0	2.4	1.8	30.9	32.9
Russian Federation	549	19.6	32.7	35.2	4.5	7.9	35.2	0.0	1.7	6.2	37.3	32.9
Singapore	620	4.5	27.2	63.9	3.6	0.8	63.9	0.0	0.0	0.8	63.4	64.4
Slovak Republic	442	16.0	25.4	47.6	5.5	5.4	47.6	0.0	0.3	5.1	48.1	47.2
Slovenia	390	10.3	28.5	51.4	8.2	1.5	51.4	0.0	0.0	1.5	43.6	59.4
South Africa	1023	15.5	51.3	23.3	6.3	3.6	23.3	0.7	1.9	1.0	25.0	21.4
Thailand	722	17.4	47.2	27.4	6.8	1.1	27.4	0.0	0.3	0.9	23.9	31.5
Tunisia	638	6.2	58.9	20.8	5.0	9.2	20.8	0.9	2.4	5.8	19.9	21.8
Turkey	980	13.0	33.5	43.2	8.1	2.1	43.2	0.0	0.3	1.8	40.9	44.9
United States	1112	10.1	10.7	76.5	2.0	0.7	76.5	0.1	0.2	0.3	77.4	75.6
International Avg.	.	13.6	29.2	48.4	5.5	3.3	48.4	0.1	0.9	2.3	47.4	49.2

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Fractions and Number Sense  
 Label: Shade in 3/8 of squares in grid ( M022132 - N19 )  
 Item Type = SA Key = X

COUNTRY	N	10	19	70	71	72	73	77	79	99	V1	NOT	1.GIRL	2.BOY	
												REACH			% Right
												ED	OMIT		
Australia	491	59.7	0.3	8.6	6.7	2.4	2.2	0.0	16.1	4.0	60.0	0.2	3.8	60.0	60.0
Belgium (Flemish)	663	87.1	0.0	1.6	4.4	0.3	0.7	0.0	5.3	0.6	87.1	0.0	0.6	87.7	86.5
Bulgaria	404	53.7	0.4	4.1	6.4	2.5	1.2	0.0	14.4	17.3	54.0	4.2	13.1	52.9	55.2
Canada	1094	68.0	0.2	10.1	6.4	1.6	0.1	0.0	11.7	1.8	68.2	0.1	1.7	68.2	68.3
Chile	750	13.0	0.1	31.8	9.8	6.9	1.1	5.5	13.6	18.1	13.1	4.2	13.9	11.6	14.7
Chinese Taipei	724	80.2	0.3	3.3	4.1	1.5	0.0	0.0	9.1	1.6	80.5	0.0	1.6	80.7	80.2
Cyprus	387	53.8	0.0	13.8	10.5	1.6	1.0	0.0	14.8	4.5	53.8	0.3	4.3	55.7	52.2
Czech Republic	425	42.5	0.0	8.5	12.0	7.1	2.3	0.0	20.9	6.7	42.5	0.8	5.9	39.6	45.1
England	363	52.5	0.0	12.2	11.1	0.7	0.0	0.0	19.8	3.7	52.5	2.1	1.6	47.1	57.5
Finland	368	64.9	0.3	11.9	8.6	0.2	0.0	0.0	11.6	2.6	65.1	0.6	2.0	68.1	62.3
Hong Kong, SAR	646	86.8	0.3	3.2	1.6	0.0	0.0	0.0	6.8	1.2	87.2	0.5	0.7	87.3	87.1
Hungary	392	61.6	1.3	4.4	7.5	3.8	0.6	0.0	13.7	7.0	63.0	1.7	5.3	59.1	66.0
Indonesia	725	21.2	0.0	21.8	8.7	7.7	4.9	0.0	26.5	9.3	21.2	0.0	9.3	18.0	24.1
Iran, Islamic Rep.	664	31.2	0.0	25.5	13.0	1.9	0.5	0.0	22.4	5.5	31.2	1.1	4.5	26.6	34.2
Israel	524	39.8	0.1	18.1	12.0	3.1	0.4	0.0	12.5	13.9	40.0	2.8	11.1	37.7	42.0
Italy	412	45.9	0.0	23.7	8.4	5.3	0.0	0.0	10.0	6.6	45.9	0.5	6.1	44.1	47.6
Japan	590	78.2	0.0	4.1	3.4	2.3	0.5	0.0	8.2	3.3	78.2	0.2	3.1	77.3	79.0
Jordan	624	31.1	0.2	20.4	8.6	10.9	4.4	0.0	19.5	4.8	31.3	0.7	4.1	25.8	36.3
Korea, Rep. of	763	81.3	0.0	3.2	4.7	3.2	0.4	0.0	6.0	1.2	81.3	0.1	1.0	82.1	80.6
Latvia (LSS)	361	45.3	0.5	6.1	9.7	5.8	3.2	0.0	18.4	11.0	45.9	2.3	8.7	43.2	48.5
Lithuania	293	25.7	0.0	10.1	9.9	14.0	0.9	0.0	23.6	15.9	25.7	1.4	14.6	24.4	27.1
Macedonia, Rep. of	503	30.0	1.8	7.5	10.4	11.2	0.8	0.0	15.5	22.9	31.7	2.7	20.2	32.0	31.5
Malaysia	699	73.3	0.1	7.1	3.6	2.2	0.3	0.0	11.1	2.2	73.5	0.6	1.6	76.9	69.4
Moldova	462	44.5	0.0	4.1	2.8	11.3	1.8	0.0	18.6	16.9	44.5	3.7	13.3	41.8	47.7
Morocco	674	8.3	0.1	17.3	8.5	25.7	1.0	0.0	20.2	18.8	8.4	3.8	15.0	10.3	7.3
Netherlands	362	60.9	0.2	5.6	13.0	0.0	0.2	0.0	18.9	1.2	61.2	0.3	0.9	57.6	65.2
New Zealand	453	46.2	0.2	16.5	10.2	3.0	0.3	0.0	20.3	3.2	46.5	0.2	3.0	53.7	39.3
Philippines	836	11.4	0.0	31.8	7.2	5.8	4.9	0.0	23.0	16.0	11.4	0.7	15.2	11.8	11.0
Romania	430	38.6	0.0	4.9	9.6	10.8	1.1	0.0	18.4	16.6	38.6	2.4	14.1	36.1	41.0
Russian Federation	549	52.2	0.0	7.7	6.8	4.8	1.1	0.0	17.0	10.4	52.2	2.3	8.1	54.8	49.2
Singapore	620	89.2	0.3	3.2	1.2	0.4	0.6	0.0	4.2	1.0	89.4	0.0	1.0	90.6	88.3
Slovak Republic	442	52.3	0.0	7.3	7.6	0.9	1.5	0.0	20.0	10.4	52.4	0.7	9.7	54.5	50.2
Slovenia	390	55.1	0.3	9.6	11.1	3.6	0.5	0.0	17.0	2.8	55.4	0.0	2.8	54.5	56.4
South Africa	1023	6.6	0.2	35.0	3.3	6.5	1.8	0.0	26.0	20.7	6.8	2.1	18.6	6.8	6.7
Thailand	722	48.6	0.0	14.0	8.0	2.4	0.1	0.0	20.8	6.0	48.6	0.4	5.6	52.0	44.6
Tunisia	638	28.2	0.1	25.3	8.7	14.7	0.4	0.0	11.6	11.0	28.3	3.3	7.6	22.9	34.7
Turkey	980	25.6	0.2	22.8	18.2	11.6	0.6	0.0	13.9	7.1	25.8	0.5	6.7	26.8	25.1
United States	1112	49.2	0.1	16.3	9.2	2.8	0.2	0.0	18.9	3.3	49.3	0.2	3.1	46.1	52.5
International Avg.	.	48.5	0.2	12.7	8.1	5.3	1.1	0.1	15.8	8.2	48.7	1.3	6.9	48.1	49.3

V1 = % Scoring 1 or better V2 = % Scoring 2 or better V3 = % Scoring 3 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent



Mathematics: Data Representation, Analysis and Probability  
 Label: Graph of cooling water ( M022135 - 001 )  
 Item Type = MC Key = A

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	518	53.8	8.0	7.3	30.4	0.5	53.8	0.0	0.0	0.5	54.8	52.8
Belgium (Flemish)	664	69.9	9.3	3.1	17.5	0.2	69.9	0.0	0.0	0.2	68.3	71.4
Bulgaria	411	41.3	16.2	16.8	24.2	1.6	41.3	0.0	0.4	1.2	38.8	44.0
Canada	1079	53.6	9.2	7.4	29.3	0.5	53.6	0.0	0.1	0.4	53.3	54.1
Chile	745	23.4	19.8	12.9	42.3	1.6	23.4	0.0	0.0	1.6	18.9	28.0
Chinese Taipei	711	51.3	9.3	6.7	32.8	0.0	51.3	0.0	0.0	0.0	51.9	50.6
Cyprus	382	21.6	33.1	13.3	30.5	1.6	21.6	0.0	0.0	1.6	16.2	26.8
Czech Republic	424	55.7	21.3	7.2	15.7	0.0	55.7	0.0	0.0	0.0	52.3	59.0
England	360	44.5	12.8	10.6	29.4	2.6	44.5	0.0	1.8	0.8	42.4	46.3
Finland	357	56.4	13.1	7.8	22.0	0.6	56.4	0.0	0.0	0.6	50.6	63.0
Hong Kong, SAR	638	46.3	8.2	5.9	39.3	0.3	46.3	0.2	0.0	0.1	43.2	49.5
Hungary	397	55.3	10.6	8.5	25.3	0.2	55.3	0.0	0.0	0.2	57.6	53.1
Indonesia	735	48.9	13.5	12.4	24.8	0.5	48.9	0.0	0.0	0.5	51.0	46.6
Iran, Islamic Rep.	666	17.0	22.1	21.4	38.7	0.8	17.0	0.0	0.0	0.8	15.2	18.1
Israel	525	30.1	14.9	13.2	39.2	2.6	30.1	0.0	1.0	1.6	23.8	36.9
Italy	416	46.3	18.7	10.8	22.8	1.4	46.3	0.0	0.0	1.4	42.3	50.2
Japan	601	47.0	12.1	2.6	38.0	0.3	47.0	0.0	0.2	0.1	43.8	50.3
Jordan	638	20.2	15.2	21.0	42.5	1.0	20.2	0.6	0.0	0.4	17.4	22.9
Korea, Rep. of	765	36.1	8.8	2.3	52.6	0.2	36.1	0.0	0.0	0.2	29.7	42.4
Latvia (LSS)	353	41.3	16.0	9.3	32.2	1.2	41.3	0.0	1.1	0.1	33.3	51.4
Lithuania	299	53.7	7.9	12.5	25.6	0.3	53.7	0.0	0.0	0.3	52.7	54.6
Macedonia, Rep. of	501	21.8	25.9	13.7	33.9	4.6	21.8	0.0	0.0	4.6	19.9	23.6
Malaysia	687	35.0	11.9	14.8	37.5	0.8	35.0	0.0	0.0	0.8	37.4	32.0
Moldova	466	36.9	14.5	17.0	30.7	0.9	36.9	0.5	0.0	0.4	37.5	36.2
Morocco	694	14.1	22.7	27.9	33.4	2.0	14.1	0.0	0.2	1.8	15.7	13.0
Netherlands	370	46.5	10.4	7.9	35.2	0.0	46.5	0.0	0.0	0.0	43.3	49.3
New Zealand	448	44.6	12.0	8.5	33.6	1.2	44.6	0.2	0.2	0.9	41.3	47.9
Philippines	815	9.4	11.1	18.1	60.8	0.7	9.4	0.2	0.0	0.5	9.4	9.3
Romania	425	35.3	27.2	10.9	24.6	2.0	35.3	0.4	0.3	1.2	36.3	34.0
Russian Federation	541	36.8	9.0	6.8	46.3	1.1	36.8	0.0	0.0	1.1	36.9	36.6
Singapore	622	60.2	8.7	6.5	24.4	0.1	60.2	0.0	0.0	0.1	56.6	63.9
Slovak Republic	443	53.9	15.0	13.3	16.5	1.3	53.9	0.0	0.0	1.3	47.2	60.0
Slovenia	390	51.1	13.7	7.6	27.2	0.5	51.1	0.0	0.0	0.5	48.2	54.3
South Africa	1021	13.8	15.2	16.5	53.8	0.7	13.8	0.0	0.0	0.7	13.8	13.7
Thailand	725	82.1	8.0	8.2	1.5	0.3	82.1	0.2	0.0	0.1	82.1	82.0
Tunisia	.	.	.	.	.	.	.	.	.	.	.	.
Turkey	980	14.2	19.4	19.4	45.0	1.9	14.2	0.0	0.0	1.9	10.0	17.5
United States	1088	46.8	9.2	11.0	32.9	0.1	46.8	0.0	0.1	0.1	42.2	51.3
International Avg.	.	41.0	14.4	11.4	32.2	1.0	41.0	0.1	0.1	0.8	38.8	43.1

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Fractions and Number Sense  
 Label: Percent decrease in travel time ( M022139 - 002 )  
 Item Type = MC Key = C

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	518	6.1	41.7	42.9	8.9	0.4	42.9	0.0	0.0	0.4	34.6	50.9
Belgium (Flemish)	664	14.4	38.9	38.0	8.4	0.4	38.0	0.2	0.0	0.1	33.8	42.0
Bulgaria	411	8.1	52.0	27.3	8.3	4.2	27.3	0.2	0.4	3.6	23.1	31.7
Canada	1079	6.6	35.5	44.7	11.8	1.4	44.7	0.2	0.1	1.1	37.0	52.3
Chile	745	7.8	53.3	23.9	12.6	2.5	23.9	0.0	0.0	2.5	20.7	27.1
Chinese Taipei	711	5.2	44.5	41.6	8.4	0.2	41.6	0.0	0.0	0.2	34.1	48.9
Cyprus	382	12.2	45.1	35.1	7.1	0.6	35.1	0.3	0.0	0.4	29.4	40.6
Czech Republic	425	10.8	44.5	39.1	4.7	0.9	39.1	0.4	0.0	0.5	30.2	47.9
England	360	2.6	43.4	40.2	11.1	2.6	40.2	0.0	2.1	0.5	32.3	47.1
Finland	357	8.3	46.5	36.1	7.7	1.3	36.1	0.0	0.0	1.3	24.3	49.7
Hong Kong, SAR	638	5.5	25.3	60.9	8.2	0.1	60.9	0.0	0.0	0.1	55.5	66.0
Hungary	397	7.9	42.0	44.3	4.3	1.5	44.3	0.0	0.0	1.5	34.7	53.3
Indonesia	735	6.9	67.4	17.8	7.7	0.3	17.8	0.0	0.0	0.3	17.2	18.5
Iran, Islamic Rep.	666	5.5	62.5	20.2	10.9	0.9	20.2	0.0	0.0	0.9	18.0	21.7
Israel	525	11.6	42.9	34.4	7.8	3.3	34.4	0.0	1.4	2.0	26.9	42.5
Italy	416	8.8	62.6	19.5	5.7	3.3	19.5	0.0	0.0	3.3	13.6	25.2
Japan	601	7.2	41.6	44.5	5.9	0.9	44.5	0.0	0.2	0.7	36.8	52.2
Jordan	639	4.8	53.6	23.7	15.6	2.3	23.7	0.5	0.0	1.8	23.0	24.4
Korea, Rep. of	765	5.4	34.7	51.8	7.9	0.3	51.8	0.0	0.0	0.3	45.7	57.7
Latvia (LSS)	353	12.3	46.0	31.2	7.5	3.0	31.2	0.8	1.1	1.1	27.3	36.1
Lithuania	299	8.6	46.5	28.4	9.3	7.2	28.4	0.0	0.0	7.2	20.4	35.5
Macedonia, Rep. of	501	8.9	61.1	18.3	6.5	5.2	18.3	0.0	0.0	5.2	14.0	22.4
Malaysia	687	5.2	31.9	53.3	9.3	0.3	53.3	0.0	0.0	0.3	57.9	47.7
Moldova	466	13.4	58.4	19.7	6.6	1.8	19.7	0.1	0.0	1.7	16.7	23.2
Morocco	696	17.6	43.1	19.5	18.5	1.2	19.5	0.0	0.2	1.1	14.4	23.3
Netherlands	370	3.9	29.8	61.1	3.8	1.4	61.1	0.0	0.0	1.4	50.8	70.6
New Zealand	448	5.8	39.8	45.2	8.0	1.3	45.2	0.0	0.2	1.1	39.8	50.7
Philippines	815	6.1	59.8	16.0	17.4	0.7	16.0	0.3	0.0	0.4	15.0	17.2
Romania	425	9.0	49.0	29.8	8.3	3.9	29.8	0.2	0.3	3.4	26.9	33.4
Russian Federation	541	10.7	46.5	32.3	7.0	3.5	32.3	0.3	0.0	3.2	30.2	34.5
Singapore	622	2.4	11.6	70.4	14.8	0.8	70.4	0.0	0.0	0.8	68.1	72.9
Slovak Republic	443	8.2	44.9	40.8	3.8	2.4	40.8	0.0	0.0	2.4	33.2	47.6
Slovenia	390	7.3	41.6	44.7	5.3	1.2	44.7	0.0	0.0	1.2	39.6	50.3
South Africa	1021	5.5	32.5	20.9	39.5	1.6	20.9	0.7	0.1	0.8	20.6	21.3
Thailand	725	6.7	56.6	28.3	8.0	0.3	28.3	0.0	0.0	0.3	27.1	29.9
Tunisia	629	7.4	69.9	16.4	3.5	2.8	16.4	1.1	0.3	1.3	14.8	18.1
Turkey	980	7.2	62.8	23.1	6.5	0.5	23.1	0.0	0.0	0.5	13.9	30.2
United States	1088	6.8	44.1	40.7	8.2	0.2	40.7	0.1	0.1	0.1	32.9	48.4
International Avg.	.	7.9	46.1	34.9	9.3	1.8	34.9	0.1	0.2	1.4	29.9	39.8

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Geometry  
 Label: Sum of angles equal to 180 degrees ( M022142 - 003 )  
 Item Type = MC Key = B

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	518	15.4	56.9	14.0	5.5	5.8	2.5	56.9	0.2	0.0	2.3	59.9	54.0
Belgium (Flemish)	664	10.5	64.7	7.6	7.8	5.4	4.0	64.7	3.4	0.0	0.7	65.9	63.6
Bulgaria	411	12.5	57.7	7.3	7.2	5.4	9.9	57.7	6.6	0.4	2.9	52.5	63.2
Canada	1079	12.3	54.9	10.5	8.4	11.8	2.0	54.9	0.5	0.1	1.4	52.5	56.9
Chile	745	22.0	31.5	14.9	9.7	16.5	5.4	31.5	0.0	0.0	5.4	26.9	36.1
Chinese Taipei	711	8.7	65.3	9.1	8.7	8.3	0.0	65.3	0.0	0.0	0.0	65.7	64.9
Cyprus	380	15.8	49.7	9.3	12.3	11.1	1.8	49.7	0.4	0.0	1.4	48.9	50.5
Czech Republic	425	13.4	52.6	11.4	8.2	13.6	0.7	52.6	0.7	0.0	0.0	50.4	54.7
England	360	19.1	39.5	15.3	9.7	10.1	6.3	39.5	1.6	2.1	2.6	36.3	42.4
Finland	357	19.5	43.6	11.0	10.7	11.5	3.7	43.6	0.0	0.0	3.7	42.1	45.4
Hong Kong, SAR	638	7.2	79.1	5.7	4.3	3.7	0.0	79.1	0.0	0.0	0.0	76.7	81.2
Hungary	397	16.0	53.3	9.5	9.0	8.3	3.9	53.3	1.0	0.0	2.9	51.5	55.2
Indonesia	735	21.4	28.2	16.2	14.0	18.4	1.8	28.2	0.1	0.0	1.7	26.9	29.5
Iran, Islamic Rep.	666	14.5	36.7	15.5	13.1	18.4	1.8	36.7	0.0	0.0	1.8	33.7	38.6
Israel	525	11.1	42.4	16.2	9.8	12.1	8.3	42.4	1.2	1.4	5.8	41.2	43.8
Italy	416	16.5	42.2	14.0	16.2	7.6	3.6	42.2	0.0	0.0	3.6	37.1	47.1
Japan	601	3.4	83.2	4.1	4.1	4.7	0.3	83.2	0.2	0.2	0.0	85.9	80.5
Jordan	639	16.5	43.2	13.7	9.4	15.2	2.1	43.2	0.9	0.0	1.2	43.3	43.0
Korea, Rep. of	765	5.1	80.5	6.4	4.9	3.1	0.0	80.5	0.0	0.0	0.0	79.4	81.6
Latvia (LSS)	353	14.0	57.8	9.1	8.2	3.8	7.1	57.8	3.8	1.1	2.2	54.3	62.3
Lithuania	299	12.9	50.3	9.0	13.1	8.7	6.1	50.3	0.0	0.0	6.1	47.1	53.2
Macedonia, Rep. of	501	15.7	42.2	11.0	9.6	12.4	9.1	42.2	2.2	0.0	6.9	41.8	42.6
Malaysia	687	13.6	43.7	15.3	11.4	14.0	2.0	43.7	0.0	0.0	2.0	40.8	47.2
Moldova	466	24.4	40.8	10.6	5.6	14.6	4.0	40.8	1.1	0.0	2.9	38.5	43.5
Morocco	696	22.4	26.0	19.8	15.2	14.2	2.2	26.0	0.0	0.2	2.1	23.3	28.1
Netherlands	370	16.3	47.6	10.6	10.0	12.9	2.5	47.6	1.5	0.0	1.0	40.6	54.3
New Zealand	448	14.9	43.3	18.0	9.0	12.2	2.6	43.3	0.3	0.2	2.1	45.4	41.2
Philippines	815	25.8	25.3	13.2	11.9	23.2	0.5	25.3	0.0	0.1	0.4	21.6	29.4
Romania	425	17.8	44.9	13.7	11.3	7.9	4.3	44.9	2.8	0.3	1.1	42.9	47.5
Russian Federation	541	13.5	61.7	8.0	7.0	5.9	3.8	61.7	1.1	0.0	2.8	61.6	61.9
Singapore	622	6.1	70.6	10.3	6.2	6.3	0.5	70.6	0.0	0.0	0.5	64.3	77.1
Slovak Republic	443	11.2	62.7	7.4	9.3	7.2	2.2	62.7	0.0	0.0	2.2	60.8	64.4
Slovenia	390	14.7	51.7	8.2	9.6	10.0	5.9	51.7	2.3	0.0	3.6	54.5	48.5
South Africa	1021	20.7	26.4	15.1	10.4	25.7	1.6	26.4	0.8	0.1	0.8	24.0	29.4
Thailand	725	14.6	53.2	11.3	9.1	11.4	0.4	53.2	0.2	0.0	0.3	52.1	54.5
Tunisia	629	6.2	49.6	13.1	8.9	5.4	16.8	49.6	14.4	0.3	2.0	46.6	52.8
Turkey	980	21.7	30.4	15.3	10.8	18.2	3.6	30.4	0.1	0.0	3.5	25.9	33.9
United States	1088	15.9	37.8	16.5	12.2	16.4	1.2	37.8	0.2	0.1	0.9	33.1	42.4
International Avg.	.	14.8	49.2	11.8	9.5	11.1	3.6	49.2	1.2	0.2	2.1	47.3	51.2

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Fractions and Number Sense  
 Label: Decimal rounded to nearest hundredth ( M022144 - 004 )  
 Item Type = MC Key = D

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	518	10.3	1.8	6.8	47.6	33.2	0.3	47.6	0.0	0.0	0.3	41.7	53.3
Belgium (Flemish)	664	1.0	7.9	6.4	64.3	20.3	0.1	64.3	0.1	0.0	0.0	64.3	64.2
Bulgaria	411	3.3	9.3	14.0	34.9	37.2	1.3	34.9	0.0	0.4	0.9	34.1	35.8
Canada	1079	2.8	3.8	9.7	68.6	14.8	0.3	68.6	0.0	0.1	0.1	64.2	73.2
Chile	745	4.1	7.8	10.9	25.7	48.9	2.6	25.7	0.0	0.0	2.6	23.5	28.0
Chinese Taipei	711	3.7	3.5	9.8	50.7	32.2	0.0	50.7	0.0	0.0	0.0	51.0	50.4
Cyprus	382	1.4	14.6	20.6	40.8	21.8	0.8	40.8	0.3	0.0	0.5	38.3	43.1
Czech Republic	425	2.1	2.5	7.6	72.5	15.3	0.0	72.5	0.0	0.0	0.0	74.2	70.8
England	360	12.9	6.6	8.5	33.4	34.6	3.9	33.4	0.0	2.1	1.8	31.2	35.2
Finland	339	1.5	2.7	14.3	55.5	24.5	1.5	55.5	0.0	0.0	1.5	57.9	52.8
Hong Kong, SAR	638	4.6	6.7	20.3	47.8	20.4	0.1	47.8	0.0	0.0	0.1	44.5	51.2
Hungary	397	2.1	1.9	5.8	74.5	14.6	1.1	74.5	0.7	0.0	0.3	75.9	73.6
Indonesia	735	3.9	13.1	17.9	32.4	31.8	0.9	32.4	0.0	0.0	0.9	33.2	31.6
Iran, Islamic Rep.	666	3.1	9.2	21.0	35.4	29.4	1.9	35.4	0.0	0.0	1.9	31.7	37.8
Israel	525	12.1	10.7	14.1	30.4	29.1	3.6	30.4	0.0	1.4	2.2	26.8	34.3
Italy	416	1.1	3.5	9.4	59.6	25.6	0.8	59.6	0.0	0.0	0.8	55.2	63.8
Japan	601	1.4	3.2	19.1	56.1	19.6	0.5	56.1	0.0	0.2	0.4	55.0	57.2
Jordan	639	4.3	10.2	15.2	42.9	25.4	2.0	42.9	0.2	0.0	1.9	50.6	35.8
Korea, Rep. of	765	0.9	2.0	4.9	87.2	4.9	0.1	87.2	0.0	0.0	0.1	88.1	86.4
Latvia (LSS)	353	1.2	4.0	16.5	47.9	29.3	1.1	47.9	0.0	1.1	0.0	50.7	44.4
Lithuania	299	1.4	3.5	14.8	67.1	12.5	0.8	67.1	0.0	0.0	0.8	71.7	63.0
Macedonia, Rep. of	501	2.1	5.0	9.4	29.3	53.1	1.2	29.3	0.0	0.0	1.2	29.6	29.0
Malaysia	687	5.6	8.7	12.8	52.5	19.7	0.6	52.5	0.0	0.0	0.6	51.8	53.4
Moldova	465	4.9	5.2	8.2	54.8	25.8	1.1	54.8	0.0	0.0	1.1	54.8	54.9
Morocco	695	13.8	12.8	17.9	25.1	29.2	1.1	25.1	0.0	0.2	0.9	26.4	24.0
Netherlands	370	0.2	3.6	17.4	59.9	18.4	0.5	59.9	0.0	0.0	0.5	55.5	64.3
New Zealand	448	9.6	4.8	9.7	40.1	35.1	0.6	40.1	0.2	0.2	0.2	42.2	38.0
Philippines	815	3.7	6.5	24.5	34.8	29.3	1.3	34.8	0.0	0.1	1.1	32.3	37.5
Romania	425	3.8	9.3	7.2	32.1	45.4	2.1	32.1	0.6	0.3	1.2	31.2	33.3
Russian Federation	541	0.8	4.7	13.0	69.2	12.0	0.2	69.2	0.0	0.0	0.2	65.4	73.3
Singapore	622	10.2	3.3	7.5	53.3	25.6	0.1	53.3	0.0	0.0	0.1	52.8	53.9
Slovak Republic	443	2.2	1.7	4.2	76.6	14.5	0.7	76.6	0.6	0.0	0.1	76.3	77.0
Slovenia	390	6.8	3.3	11.3	52.3	25.6	0.7	52.3	0.0	0.0	0.7	52.0	52.7
South Africa	1021	11.9	15.3	12.9	21.3	36.9	1.6	21.3	0.2	0.1	1.3	21.8	20.7
Thailand	725	1.4	7.7	0.5	82.4	7.9	0.2	82.4	0.0	0.0	0.2	81.1	84.0
Tunisia	629	1.6	5.4	14.0	33.9	41.3	3.8	33.9	0.7	0.3	2.8	32.2	35.7
Turkey	980	3.2	9.2	20.2	29.3	34.6	3.5	29.3	0.1	0.0	3.5	30.2	28.7
United States	1088	1.9	3.8	10.8	70.4	12.8	0.4	70.4	0.0	0.1	0.3	68.7	72.0
International Avg.	.	4.3	6.3	12.3	49.8	26.1	1.1	49.8	0.1	0.2	0.9	49.2	50.5

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Data Representation, Analysis and Probability  
 Label: Number of students from probability ( M022146 - 005 )  
 Item Type = MC Key = E

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	518	4.4	5.9	9.5	13.2	66.9	0.2	66.9	0.2	0.0	0.0	65.5	68.3
Belgium (Flemish)	664	3.1	2.5	4.4	5.8	84.3	0.0	84.3	0.0	0.0	0.0	84.1	84.4
Bulgaria	411	11.4	7.5	8.0	14.5	55.0	3.6	55.0	0.5	0.7	2.4	56.2	53.7
Canada	1079	4.5	4.0	5.9	11.4	74.0	0.1	74.0	0.0	0.1	0.0	74.6	73.8
Chile	745	14.3	10.7	16.5	27.7	29.1	1.6	29.1	0.0	0.0	1.6	28.2	30.1
Chinese Taipei	711	1.8	2.9	3.8	5.7	85.8	0.0	85.8	0.0	0.0	0.0	87.1	84.6
Cyprus	382	9.9	11.8	9.9	11.8	56.4	0.3	56.4	0.0	0.0	0.3	53.7	58.9
Czech Republic	425	10.6	9.5	5.8	23.0	49.8	1.3	49.8	0.0	0.0	1.3	45.2	54.3
England	360	2.2	4.1	13.1	22.4	54.0	4.2	54.0	0.0	3.9	0.3	51.2	56.4
Finland	357	3.2	6.4	6.9	10.3	72.2	0.9	72.2	0.0	0.0	0.9	73.2	71.0
Hong Kong, SAR	638	1.8	3.3	3.0	5.4	86.5	0.0	86.5	0.0	0.0	0.0	86.5	86.4
Hungary	397	7.7	5.7	6.7	13.1	65.3	1.4	65.3	0.0	0.0	1.4	63.8	66.6
Indonesia	735	10.4	9.3	10.6	23.8	44.6	1.2	44.6	0.0	0.0	1.2	44.2	45.1
Iran, Islamic Rep.	666	11.8	12.5	9.7	14.5	50.9	0.6	50.9	0.0	0.0	0.6	46.0	54.1
Israel	525	7.4	9.0	10.6	17.8	50.1	5.1	50.1	0.7	1.4	3.0	45.5	55.1
Italy	416	6.4	7.0	6.6	15.3	62.8	1.8	62.8	0.0	0.0	1.8	62.3	63.3
Japan	601	2.1	3.6	2.8	5.4	86.0	0.2	86.0	0.0	0.2	0.0	87.8	84.1
Jordan	639	10.4	9.3	8.7	28.3	41.7	1.6	41.7	0.1	0.1	1.5	44.6	39.0
Korea, Rep. of	765	1.5	2.0	2.8	5.8	87.8	0.1	87.8	0.0	0.0	0.1	86.9	88.6
Latvia (LSS)	353	5.5	9.5	6.1	19.3	57.2	2.5	57.2	0.0	1.1	1.4	50.1	66.1
Lithuania	299	13.6	4.2	5.9	17.3	56.6	2.4	56.6	0.0	0.0	2.4	59.4	54.1
Macedonia, Rep. of	501	12.4	8.6	10.8	20.2	42.3	5.7	42.3	0.0	0.2	5.5	43.0	41.7
Malaysia	687	5.1	6.3	6.4	7.1	74.5	0.7	74.5	0.1	0.0	0.6	75.4	73.4
Moldova	466	22.5	12.0	5.7	18.2	39.9	1.7	39.9	0.0	0.3	1.4	41.9	37.6
Morocco	696	26.2	21.4	14.2	20.1	16.4	1.8	16.4	0.0	0.2	1.6	16.5	16.4
Netherlands	370	1.6	4.9	5.3	15.2	72.5	0.5	72.5	0.0	0.0	0.5	67.0	77.5
New Zealand	448	4.8	7.8	12.6	20.4	53.8	0.6	53.8	0.0	0.2	0.4	56.7	50.9
Philippines	815	17.7	14.6	14.8	20.0	31.2	1.7	31.2	0.1	0.3	1.3	31.4	31.0
Romania	425	16.6	11.4	7.2	17.8	44.4	2.6	44.4	0.2	0.3	2.1	42.3	47.1
Russian Federation	541	11.4	8.2	9.5	11.0	57.1	2.8	57.1	0.0	0.0	2.8	53.8	60.5
Singapore	622	1.4	1.2	3.1	3.2	90.9	0.2	90.9	0.0	0.0	0.2	91.8	90.0
Slovak Republic	443	12.1	9.6	4.3	13.9	58.5	1.6	58.5	0.0	0.0	1.6	57.9	59.1
Slovenia	390	5.8	6.2	4.8	19.4	61.3	2.5	61.3	0.0	0.0	2.5	61.3	61.3
South Africa	1021	15.0	12.6	14.1	24.1	32.7	1.5	32.7	0.2	0.1	1.2	33.2	32.1
Thailand	725	8.7	11.1	6.8	15.1	58.2	0.1	58.2	0.0	0.0	0.1	58.4	57.9
Tunisia	628	9.3	7.0	18.5	29.4	32.7	3.0	32.7	0.2	0.4	2.5	27.5	38.4
Turkey	980	11.3	10.6	13.7	24.0	39.0	1.4	39.0	0.0	0.0	1.4	37.2	40.4
United States	1088	7.1	8.3	10.5	14.5	59.2	0.5	59.2	0.0	0.1	0.4	55.2	63.2
International Avg.	.	8.8	8.0	8.4	15.9	57.4	1.5	57.4	0.1	0.2	1.2	56.5	58.3

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Measurement  
 Label: Time when finish homework ( M022148 - 006 )  
 Item Type = SA Key = X

COUNTRY	N	NOT REACHED										1.GIRL		2.BOY	
		10	19	70	71	72	77	79	99	V1	ED	OMIT	% Right	% Right	
Australia	518	74.9	0.0	3.1	1.1	0.3	0.0	19.0	1.6	74.9	0.0	1.6	74.7	75.0	
Belgium (Flemish)	664	90.3	0.0	2.6	0.2	0.6	0.0	6.3	0.0	90.3	0.0	0.0	89.8	90.8	
Bulgaria	411	45.6	0.0	1.3	0.4	0.1	0.0	34.8	17.8	45.6	0.7	17.1	44.7	46.6	
Canada	1079	73.7	0.0	3.2	2.9	0.6	0.0	18.7	0.9	73.7	0.1	0.7	72.2	75.5	
Chile	745	39.1	0.2	2.2	3.0	0.7	6.2	39.8	8.8	39.4	0.0	8.8	29.7	49.2	
Chinese Taipei	711	61.0	1.2	1.4	1.4	0.0	0.0	31.5	3.5	62.2	0.0	3.5	60.3	64.1	
Cyprus	381	72.9	0.0	2.2	1.9	0.0	0.0	18.7	4.3	72.9	0.0	4.3	67.3	78.1	
Czech Republic	425	84.7	0.6	2.2	1.5	0.1	0.0	10.6	0.3	85.3	0.0	0.3	81.9	88.6	
England	360	74.2	0.0	5.9	2.4	0.4	0.0	12.5	4.5	74.2	3.9	0.6	73.2	75.0	
Finland	357	70.1	0.8	1.5	1.1	0.0	0.0	24.3	2.2	70.9	0.0	2.2	70.2	71.8	
Hong Kong, SAR	638	68.7	0.0	3.2	0.5	0.8	0.0	23.7	3.1	68.7	0.0	3.1	62.5	74.9	
Hungary	397	91.1	1.2	1.7	0.5	0.2	0.0	4.5	0.7	92.3	0.0	0.7	91.6	92.9	
Indonesia	735	20.5	1.2	2.0	2.3	0.1	0.0	69.3	4.5	21.8	0.0	4.5	22.4	21.2	
Iran, Islamic Rep.	666	22.2	0.0	1.1	2.3	0.1	0.0	58.8	15.4	22.2	0.0	15.4	12.8	28.3	
Israel	525	61.6	0.2	2.9	1.2	0.9	0.0	24.6	8.6	61.7	1.6	7.1	59.1	64.6	
Italy	416	70.9	0.0	5.0	2.8	1.3	0.0	18.0	2.1	70.9	0.0	2.1	65.1	76.5	
Japan	601	68.1	0.0	2.4	1.8	0.0	0.0	25.4	2.3	68.1	0.2	2.1	68.7	67.5	
Jordan	639	26.4	0.0	2.8	2.7	1.2	0.0	60.3	6.7	26.4	0.1	6.6	20.4	31.9	
Korea, Rep. of	765	62.3	1.5	1.7	2.1	0.1	0.0	31.2	1.1	63.8	0.0	1.1	63.5	64.1	
Latvia (LSS)	353	38.2	0.2	3.5	1.0	0.3	0.0	46.1	10.7	38.4	1.1	9.7	35.6	41.9	
Lithuania	299	41.8	0.0	1.9	1.4	0.4	0.0	47.8	6.8	41.8	0.0	6.8	40.8	42.6	
Macedonia, Rep. of	501	28.7	0.9	2.2	1.3	2.2	0.0	29.5	35.2	29.6	0.7	34.6	29.3	29.8	
Malaysia	687	55.2	0.4	1.4	0.5	0.0	0.0	37.5	5.0	55.5	0.0	5.0	54.3	57.0	
Moldova	466	41.8	0.7	2.1	1.8	0.0	0.0	39.9	13.8	42.4	0.3	13.5	45.1	39.5	
Morocco	696	19.7	0.3	1.8	1.9	0.3	0.0	60.9	15.1	20.0	0.2	14.9	10.6	26.6	
Netherlands	370	87.8	2.3	0.1	0.0	0.4	0.0	8.6	0.6	90.2	0.0	0.6	87.8	92.4	
New Zealand	448	69.5	0.0	3.3	2.6	0.4	0.0	23.5	0.7	69.5	0.2	0.5	69.1	69.9	
Philippines	815	6.5	0.0	3.1	4.3	0.0	0.0	75.9	10.3	6.5	0.3	10.0	5.5	7.6	
Romania	425	69.2	0.0	2.8	0.4	0.0	0.0	21.5	6.1	69.2	0.3	5.8	64.4	75.5	
Russian Federation	540	6.0	50.6	1.5	0.5	0.3	0.0	34.4	6.6	56.6	0.0	6.6	53.9	59.5	
Singapore	622	79.7	0.0	2.3	1.4	0.2	0.0	14.8	1.6	79.7	0.0	1.6	76.4	83.1	
Slovak Republic	443	85.6	0.5	0.6	0.8	0.0	0.0	8.7	3.8	86.1	0.0	3.8	84.5	87.6	
Slovenia	390	74.8	1.2	1.7	0.8	0.6	0.0	20.1	0.9	75.9	0.0	0.9	72.4	79.8	
South Africa	1021	11.0	0.1	2.4	5.0	0.0	0.0	74.8	6.7	11.0	0.1	6.6	8.9	13.7	
Thailand	725	23.9	0.2	2.2	4.4	0.0	0.0	65.1	4.2	24.0	0.0	4.2	21.0	27.8	
Tunisia	629	32.3	0.3	3.7	2.6	0.0	0.0	50.3	10.8	32.6	0.3	10.4	22.7	43.4	
Turkey	980	28.5	0.1	3.7	3.8	0.1	0.0	49.5	14.3	28.6	0.0	14.3	22.6	33.2	
United States	1088	58.6	0.0	5.2	2.9	0.2	0.0	30.5	2.5	58.6	0.1	2.4	53.9	63.3	
International Avg.	.	53.6	1.7	2.5	1.8	0.3	0.2	33.5	6.4	55.3	0.3	6.2	52.3	58.2	

V1 = % Scoring 1 or better V2 = % Scoring 2 or better V3 = % Scoring 3 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Algebra  
 Label: Solve equation for x ( M022253 - 007 )  
 Item Type = SA Key = X

COUNTRY	N	NOT REACHED										1.GIRL % Right	2.BOY % Right	
		10	70	71	72	73	77	79	99	V1	ED			OMIT
Australia	518	53.7	0.2	1.4	3.5	2.5	0.0	33.6	5.1	53.7	0.0	5.1	54.7	52.7
Belgium (Flemish)	664	70.9	1.0	2.9	5.6	1.9	0.0	14.6	3.1	70.9	0.0	3.1	72.5	69.4
Bulgaria	411	66.8	0.8	0.6	0.0	1.3	0.0	17.6	12.9	66.8	0.7	12.3	72.1	61.4
Canada	1079	57.3	0.4	1.6	1.9	6.4	0.0	28.6	3.9	57.3	0.1	3.8	53.4	61.3
Chile	745	12.6	0.1	1.6	13.2	3.9	7.5	28.3	32.8	12.6	0.0	32.8	11.5	13.7
Chinese Taipei	711	79.4	1.2	0.8	0.7	5.0	0.0	9.4	3.4	79.4	0.0	3.4	80.0	78.8
Cyprus	381	59.5	0.9	1.7	0.9	6.2	0.0	19.6	11.3	59.5	0.0	11.3	65.3	54.0
Czech Republic	425	69.5	0.1	0.6	0.1	4.0	0.0	19.5	6.2	69.5	0.0	6.2	68.4	70.5
England	360	39.9	0.5	2.4	6.3	3.3	0.0	32.9	14.8	39.9	3.9	10.9	39.7	40.1
Finland	357	43.3	0.0	1.5	11.0	5.5	0.0	29.1	9.7	43.3	0.0	9.7	42.2	44.5
Hong Kong, SAR	638	87.6	1.5	1.0	0.3	0.2	0.0	8.2	1.2	87.6	0.1	1.0	89.1	86.3
Hungary	397	74.8	0.0	0.6	0.7	2.5	0.0	14.2	7.2	74.8	0.0	7.2	80.7	69.9
Indonesia	735	31.7	0.3	1.1	5.2	13.6	0.0	41.8	6.2	31.7	0.0	6.2	32.1	31.2
Iran, Islamic Rep.	666	25.4	0.4	0.8	2.4	20.8	0.0	34.2	16.1	25.4	0.0	16.1	21.7	27.8
Israel	525	51.5	0.6	0.8	0.8	7.8	0.0	22.9	15.6	51.5	1.6	14.0	53.2	49.7
Italy	416	49.3	1.5	1.4	0.9	2.4	0.0	25.1	19.3	49.3	0.0	19.3	50.3	48.4
Japan	601	84.5	1.0	0.3	0.4	0.0	0.0	10.4	3.4	84.5	0.2	3.2	83.5	85.7
Jordan	639	30.8	0.7	0.7	2.7	17.6	0.0	39.0	8.4	30.8	0.1	8.3	35.0	27.0
Korea, Rep. of	765	85.0	0.8	0.6	1.8	0.5	0.0	9.5	1.8	85.0	0.0	1.8	84.5	85.5
Latvia (LSS)	353	65.9	1.3	1.2	1.6	6.0	0.0	16.3	7.7	65.9	1.1	6.6	64.4	67.7
Lithuania	299	67.0	2.4	0.3	0.5	5.4	0.0	15.5	8.9	67.0	0.6	8.3	74.6	60.3
Macedonia, Rep. of	501	49.7	1.4	0.6	1.1	7.8	0.0	12.5	26.9	49.7	0.9	26.1	53.1	46.5
Malaysia	687	48.2	1.3	3.0	3.5	8.4	0.0	29.0	6.7	48.2	0.0	6.7	49.1	47.0
Moldova	466	61.4	0.8	0.2	0.5	0.7	0.0	23.3	13.2	61.4	0.6	12.6	65.7	56.5
Morocco	696	12.9	0.8	2.0	1.2	6.4	0.0	50.5	26.2	12.9	0.2	26.0	12.2	13.2
Netherlands	370	51.5	0.6	1.6	0.6	0.7	0.0	38.5	6.5	51.5	0.0	6.5	52.6	50.7
New Zealand	448	44.3	1.1	1.6	4.6	5.5	0.0	35.8	7.2	44.3	0.2	7.0	46.3	42.2
Philippines	815	13.5	0.2	1.0	0.3	17.4	0.0	50.3	17.4	13.5	0.3	17.1	12.2	15.0
Romania	425	64.2	0.5	0.9	1.2	2.6	0.0	18.7	11.8	64.2	0.3	11.5	62.0	66.9
Russian Federation	540	76.8	2.6	0.4	0.3	1.8	0.0	10.5	7.6	76.8	0.0	7.6	80.9	72.6
Singapore	622	81.6	1.1	0.8	1.1	0.4	0.0	12.6	2.3	81.6	0.1	2.3	82.7	80.4
Slovak Republic	443	74.0	2.1	0.5	0.0	5.1	0.0	12.3	5.9	74.0	0.0	5.9	82.5	66.4
Slovenia	390	72.8	2.1	0.3	0.5	5.7	0.0	16.4	2.3	72.8	0.0	2.3	73.6	72.0
South Africa	1021	7.2	1.0	1.3	3.9	23.4	0.0	57.2	6.0	7.2	0.1	5.9	5.1	9.7
Thailand	725	43.8	0.2	0.9	3.9	9.4	0.0	38.5	3.2	43.8	0.2	3.1	46.5	40.4
Tunisia	629	44.2	0.8	5.7	7.3	0.6	0.0	31.7	9.7	44.2	0.3	9.4	36.7	52.4
Turkey	980	38.7	1.7	2.6	0.8	2.1	0.0	34.3	19.8	38.7	0.1	19.7	41.6	36.5
United States	1088	57.8	0.8	1.1	2.1	6.6	0.0	26.9	4.7	57.8	0.1	4.6	56.2	59.4
International Avg.	.	53.9	0.9	1.3	2.5	5.8	0.2	25.5	9.9	53.9	0.3	9.6	54.9	53.0

V1 = % Scoring 1 or better V2 = % Scoring 2 or better V3 = % Scoring 3 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Geometry  
 Label: Center point of rotation of rectangle ( M022154 - 008 )  
 Item Type = MC Key = C

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	518	33.7	3.5	57.2	2.7	1.9	1.0	57.2	0.2	0.0	0.8	61.3	53.2
Belgium (Flemish)	664	23.3	0.3	73.6	1.4	1.0	0.4	73.6	0.0	0.0	0.4	75.1	72.1
Bulgaria	411	29.6	3.6	58.7	1.7	1.1	5.3	58.7	0.5	0.7	4.2	60.7	56.5
Canada	1079	25.5	3.3	65.6	2.2	2.9	0.6	65.6	0.0	0.1	0.4	70.4	60.9
Chile	745	53.7	9.0	28.3	3.9	3.0	2.1	28.3	0.0	0.0	2.1	29.3	27.4
Chinese Taipei	711	19.2	4.7	72.5	1.4	2.3	0.0	72.5	0.0	0.0	0.0	71.0	73.9
Cyprus	380	53.0	4.7	35.7	4.8	1.1	0.7	35.7	0.0	0.0	0.7	39.7	31.8
Czech Republic	425	22.2	3.7	71.7	0.0	1.8	0.5	71.7	0.0	0.0	0.5	66.9	76.4
England	360	31.3	3.9	56.0	3.0	1.8	3.9	56.0	0.0	3.9	0.0	50.2	61.0
Finland	357	38.8	3.3	48.9	3.5	4.3	1.2	48.9	0.0	0.0	1.2	58.5	37.9
Hong Kong, SAR	638	24.1	9.1	62.0	2.4	1.5	0.9	62.0	0.0	0.1	0.7	61.5	62.4
Hungary	397	25.1	1.2	70.3	2.0	1.2	0.2	70.3	0.0	0.0	0.2	69.5	71.4
Indonesia	735	41.4	8.1	37.0	7.7	5.1	0.8	37.0	0.0	0.0	0.8	38.3	35.6
Iran, Islamic Rep.	666	37.0	12.1	39.3	6.0	4.5	1.2	39.3	0.0	0.0	1.2	37.1	40.7
Israel	525	28.3	11.7	48.3	3.9	3.1	4.7	48.3	0.4	1.6	2.6	47.7	49.0
Italy	416	29.1	3.1	63.2	2.9	0.9	0.7	63.2	0.0	0.0	0.7	64.3	62.1
Japan	601	10.2	0.9	85.9	1.2	1.4	0.3	85.9	0.0	0.2	0.2	86.2	85.6
Jordan	636	33.2	8.1	47.4	4.4	5.8	1.1	47.4	0.5	0.1	0.6	45.8	48.8
Korea, Rep. of	765	18.5	2.7	74.9	2.9	0.9	0.0	74.9	0.0	0.0	0.0	72.4	77.2
Latvia (LSS)	353	19.8	7.4	64.0	3.9	2.2	2.7	64.0	0.3	1.1	1.4	60.0	69.0
Lithuania	299	39.2	1.7	47.7	4.8	4.3	2.3	47.7	0.0	0.6	1.8	48.1	47.2
Macedonia, Rep. of	501	49.1	3.7	38.7	2.1	1.3	5.1	38.7	0.4	0.9	3.8	40.1	37.2
Malaysia	687	32.5	5.0	57.3	2.8	2.1	0.3	57.3	0.0	0.0	0.3	54.8	60.3
Moldova	466	41.3	7.3	43.0	3.9	1.9	2.6	43.0	0.6	0.6	1.3	46.2	39.4
Morocco	695	45.1	26.3	20.4	4.0	2.1	2.1	20.4	0.0	0.2	1.9	22.0	19.1
Netherlands	370	19.0	10.6	63.3	4.7	1.7	0.7	63.3	0.0	0.0	0.7	58.8	67.7
New Zealand	447	34.0	5.5	54.9	4.1	1.1	0.4	54.9	0.0	0.2	0.2	57.4	52.3
Philippines	815	52.3	8.5	24.3	9.8	3.6	1.5	24.3	0.0	0.3	1.2	25.4	23.1
Romania	424	32.1	6.9	53.8	3.5	0.5	3.1	53.8	1.7	0.3	1.1	53.4	54.4
Russian Federation	541	32.2	4.9	59.2	1.8	0.8	1.1	59.2	0.1	0.0	1.0	57.2	61.3
Singapore	622	25.5	4.0	66.1	2.1	1.9	0.3	66.1	0.0	0.1	0.2	61.0	71.5
Slovak Republic	443	26.1	0.6	69.9	0.9	0.8	1.8	69.9	0.3	0.0	1.5	72.3	67.7
Slovenia	390	20.7	1.2	77.4	0.5	0.2	0.0	77.4	0.0	0.0	0.0	78.3	76.3
South Africa	1021	56.7	8.4	19.6	8.4	4.9	2.0	19.6	0.9	0.1	1.1	19.6	19.5
Thailand	725	46.5	5.9	42.4	2.6	2.2	0.3	42.4	0.0	0.2	0.1	40.4	45.0
Tunisia	629	46.5	4.9	35.7	4.3	3.1	5.5	35.7	3.5	0.3	1.7	35.4	36.0
Turkey	980	52.2	6.1	33.4	3.5	3.8	1.0	33.4	0.1	0.1	0.8	34.0	32.9
United States	1088	41.7	5.6	48.9	2.1	1.4	0.2	48.9	0.0	0.1	0.1	44.6	53.2
International Avg.	.	33.9	5.8	53.1	3.4	2.3	1.5	53.1	0.3	0.3	1.0	53.0	53.1

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent



Mathematics: Fractions and Number Sense  
 Label: Scoops of flour needed to fill bag ( M022156 - 009 )  
 Item Type = SA Key = X

COUNTRY	N	10	70	71	72	73	74	77	79	99	V1	NOT	OMIT	1.GIRL	2.BOY
												REACH		% Right	% Right
Australia	518	51.8	0.2	1.7	2.0	2.0	3.6	0.0	29.1	9.7	51.8	0.0	9.7	44.8	58.6
Belgium (Flemish)	664	68.9	0.4	1.8	0.4	3.1	2.0	0.0	21.1	2.3	68.9	0.0	2.3	63.1	74.5
Bulgaria	411	45.9	0.2	4.5	3.3	3.3	2.5	0.0	24.9	15.3	45.9	1.0	14.3	47.3	44.5
Canada	1079	54.7	0.5	1.8	2.3	3.2	4.3	0.0	27.4	5.7	54.7	0.2	5.5	50.6	59.0
Chile	745	11.9	0.4	2.0	4.8	2.7	3.7	5.7	38.5	30.2	11.9	0.0	30.2	9.5	14.4
Chinese Taipei	711	80.6	0.0	2.9	0.3	0.5	1.7	0.0	12.3	1.7	80.6	0.0	1.7	83.5	77.9
Cyprus	381	48.4	1.6	1.4	3.5	2.5	2.9	0.0	26.6	13.0	48.4	0.0	13.0	42.7	53.8
Czech Republic	425	54.5	0.0	0.6	4.1	2.7	1.9	0.0	28.2	8.0	54.5	0.0	8.0	49.3	59.5
England	360	42.9	0.0	1.4	3.2	4.2	4.1	0.0	32.6	11.5	42.9	3.9	7.6	35.3	49.5
Finland	357	61.1	0.0	2.2	0.6	3.1	3.7	0.0	25.0	4.3	61.1	0.0	4.3	55.1	68.0
Hong Kong, SAR	638	76.3	0.7	1.5	1.0	2.3	3.7	0.0	11.7	2.7	76.3	0.1	2.6	75.5	77.0
Hungary	397	57.0	0.5	3.0	3.1	0.5	1.4	0.0	19.3	15.1	57.0	0.0	15.1	58.7	55.8
Indonesia	735	33.9	2.5	5.2	2.0	1.5	2.4	0.0	46.3	6.1	33.9	0.0	6.1	34.8	32.9
Iran, Islamic Rep.	666	31.0	0.0	13.2	1.4	4.8	9.8	0.0	28.8	10.9	31.0	0.0	10.9	27.8	33.2
Israel	525	42.7	1.4	5.7	0.9	2.0	3.1	0.0	27.0	17.2	42.7	1.8	15.4	37.4	48.4
Italy	416	39.0	0.2	3.7	9.1	2.4	4.5	0.0	27.1	13.9	39.0	0.0	13.9	35.4	42.5
Japan	601	69.8	0.3	1.7	0.8	3.3	4.3	0.0	14.9	4.8	69.8	0.2	4.6	69.3	70.2
Jordan	636	24.5	2.5	16.0	1.0	2.4	6.8	0.0	37.9	9.0	24.5	0.1	8.9	19.2	29.3
Korea, Rep. of	765	69.5	0.3	2.1	0.4	2.9	7.2	0.0	16.1	1.5	69.5	0.0	1.5	67.7	71.2
Latvia (LSS)	353	51.9	0.7	7.1	0.5	1.4	2.5	0.0	26.9	9.0	51.9	1.1	7.9	46.7	58.3
Lithuania	299	45.9	0.7	4.4	3.9	0.9	1.6	0.0	29.1	13.4	45.9	0.6	12.8	45.1	46.6
Macedonia, Rep. of	501	30.7	0.9	2.5	4.5	1.0	2.4	0.0	27.5	30.5	30.7	0.9	29.6	33.1	28.4
Malaysia	687	57.3	0.7	5.2	2.0	2.6	1.8	0.0	25.7	4.9	57.3	0.0	4.9	56.8	57.8
Moldova	466	45.6	1.0	1.9	7.3	2.2	2.0	0.0	27.0	13.1	45.6	0.6	12.5	46.7	44.4
Morocco	696	10.1	1.4	2.3	4.4	2.3	1.0	0.0	55.8	22.7	10.1	0.3	22.4	9.4	10.6
Netherlands	370	73.2	0.2	0.9	0.8	2.4	5.7	0.0	15.1	1.7	73.2	0.0	1.7	64.6	81.2
New Zealand	448	43.3	0.2	0.5	4.7	2.9	3.5	0.0	37.7	7.3	43.3	0.2	7.1	43.1	43.4
Philippines	815	9.3	2.7	9.0	1.5	1.8	3.7	0.0	58.1	14.0	9.3	0.3	13.7	10.0	8.4
Romania	425	41.1	2.5	6.1	3.5	3.0	3.4	0.0	26.4	14.0	41.1	0.3	13.7	39.8	42.8
Russian Federation	541	55.0	0.8	3.9	5.6	0.8	2.3	0.0	19.5	12.1	55.0	0.3	11.8	54.4	55.8
Singapore	622	81.4	0.3	3.9	0.7	2.2	0.4	0.0	10.0	1.0	81.4	0.1	0.9	78.4	84.5
Slovak Republic	443	55.0	0.3	3.8	4.3	2.5	1.8	0.0	19.5	12.8	55.0	0.0	12.8	53.1	56.8
Slovenia	390	56.3	0.0	3.6	1.3	3.9	3.0	0.0	22.1	9.7	56.3	0.0	9.7	52.4	60.6
South Africa	1021	4.9	0.8	2.5	2.5	4.9	6.8	0.0	71.1	6.6	4.9	0.1	6.5	2.9	7.2
Thailand	725	37.1	1.5	0.6	9.6	6.1	6.0	0.0	37.1	2.0	37.1	0.2	1.9	38.7	35.1
Tunisia	629	31.5	0.1	13.0	1.8	3.2	6.5	0.0	31.8	12.1	31.5	0.3	11.7	26.6	36.8
Turkey	980	44.1	0.2	4.3	4.9	3.3	4.7	0.0	26.8	11.7	44.1	0.1	11.6	42.5	45.4
United States	1088	48.9	0.7	3.7	3.0	4.2	3.4	0.0	28.5	7.6	48.9	0.1	7.5	41.5	56.1
International Avg.	.	47.0	0.7	4.0	2.9	2.7	3.6	0.2	28.7	10.2	47.0	0.3	9.9	44.5	49.5

V1 = % Scoring 1 or better V2 = % Scoring 2 or better V3 = % Scoring 3 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Measurement  
 Label: Ratio of width/perimeter in rectangle ( M022159 - P08 )  
 Item Type = MC Key = D

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	500	60.8	7.3	12.2	18.3	1.4	18.3	0.0	0.0	1.4	16.6	20.2
Belgium (Flemish)	657	40.2	8.3	21.6	29.4	0.5	29.4	0.1	0.2	0.2	33.4	25.7
Bulgaria	406	41.1	13.4	14.5	25.4	5.6	25.4	0.4	2.2	3.1	30.3	20.4
Canada	1084	56.7	9.8	17.2	16.0	0.3	16.0	0.0	0.1	0.2	17.4	14.7
Chile	735	43.0	9.9	27.2	13.9	6.0	13.9	0.0	1.3	4.6	13.7	14.0
Chinese Taipei	717	21.5	9.3	16.6	52.6	0.1	52.6	0.0	0.0	0.1	50.1	55.0
Cyprus	391	41.3	16.1	23.9	16.7	2.1	16.7	0.8	0.2	1.1	15.8	17.5
Czech Republic	424	50.3	11.7	16.5	19.9	1.6	19.9	0.0	0.4	1.3	20.2	19.6
England	362	60.2	9.3	14.8	13.0	2.7	13.0	0.0	1.9	0.8	10.9	15.2
Finland	370	49.9	18.3	19.4	11.3	1.1	11.3	0.0	0.3	0.8	11.1	11.6
Hong Kong, SAR	643	24.6	16.9	12.0	45.3	1.2	45.3	0.2	0.7	0.3	49.9	40.8
Hungary	394	53.2	13.7	15.4	16.4	1.4	16.4	0.0	0.0	1.4	13.7	19.1
Indonesia	724	51.5	7.0	23.6	17.3	0.7	17.3	0.0	0.3	0.3	17.4	17.2
Iran, Islamic Rep.	663	42.2	10.0	31.8	14.8	1.1	14.8	0.0	0.3	0.9	13.2	15.9
Israel	526	48.1	9.8	21.8	15.1	5.2	15.1	0.0	0.7	4.6	15.0	15.2
Italy	415	34.9	9.5	21.3	32.4	1.9	32.4	0.0	0.4	1.5	30.3	34.6
Japan	585	32.7	8.8	13.8	44.5	0.3	44.5	0.2	0.1	0.0	41.5	47.4
Jordan	630	37.4	15.5	25.1	20.0	2.0	20.0	0.5	0.1	1.4	19.7	20.3
Korea, Rep. of	763	33.9	22.5	13.7	29.7	0.3	29.7	0.0	0.1	0.2	28.4	30.9
Latvia (LSS)	355	46.1	6.6	21.6	19.7	5.9	19.7	0.0	3.0	2.9	19.2	20.2
Lithuania	292	53.6	3.9	18.1	19.0	5.4	19.0	0.7	1.2	3.6	18.9	19.0
Macedonia, Rep. of	506	51.2	9.5	21.6	12.6	5.1	12.6	0.2	0.6	4.3	12.2	13.0
Malaysia	702	40.8	13.5	23.4	21.1	1.2	21.1	0.0	0.4	0.8	23.6	18.0
Moldova	477	44.5	8.3	21.1	20.7	5.4	20.7	0.0	0.9	4.4	21.4	20.0
Morocco	647	20.3	10.3	17.9	11.9	39.6	11.9	0.6	32.1	7.0	13.4	10.6
Netherlands	365	58.2	13.0	13.5	15.0	0.3	15.0	0.0	0.1	0.2	16.2	13.6
New Zealand	435	58.3	10.5	14.3	16.2	0.7	16.2	0.3	0.0	0.4	14.3	18.1
Philippines	848	43.4	10.9	36.0	8.2	1.5	8.2	0.1	0.7	0.6	7.4	9.1
Romania	428	38.5	10.1	21.4	27.5	2.5	27.5	0.0	0.6	1.9	28.5	26.8
Russian Federation	531	45.9	6.9	17.8	25.8	3.7	25.8	0.1	0.9	2.6	24.3	27.6
Singapore	624	23.4	10.2	10.5	56.0	0.0	56.0	0.0	0.0	0.0	55.5	56.3
Slovak Republic	436	53.4	7.5	15.9	21.5	1.8	21.5	0.0	0.0	1.8	21.0	21.9
Slovenia	389	52.7	10.2	15.2	20.9	0.9	20.9	0.0	0.0	0.9	21.8	20.2
South Africa	993	33.7	9.0	36.5	18.1	2.8	18.1	0.3	1.5	1.0	19.2	16.8
Thailand	711	51.7	7.6	31.7	8.7	0.3	8.7	0.0	0.0	0.3	10.2	7.0
Tunisia	629	46.4	8.4	25.4	17.4	2.5	17.4	0.4	1.1	0.9	15.5	19.3
Turkey	990	32.5	12.8	35.0	18.3	1.5	18.3	0.0	0.3	1.2	19.5	17.2
United States	1080	53.7	12.8	20.9	11.4	1.2	11.4	0.0	0.4	0.9	11.2	11.6
International Avg.	.	44.0	10.8	20.5	21.6	3.1	21.6	0.1	1.4	1.6	21.6	21.6

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Algebra  
 Label: Expression equivalent to  $n \times n \times n$  ( M022176 - P09 )  
 Item Type = MC Key = D

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	500	2.6	4.3	15.9	76.7	0.5	76.7	0.0	0.2	0.4	76.8	76.6
Belgium (Flemish)	657	1.1	5.2	12.9	80.3	0.5	80.3	0.0	0.2	0.4	82.2	78.6
Bulgaria	406	3.8	5.1	16.3	68.7	6.2	68.7	0.9	2.6	2.7	70.6	66.6
Canada	1084	1.1	2.1	20.8	75.2	0.7	75.2	0.0	0.1	0.6	73.8	77.1
Chile	735	4.6	12.6	11.7	66.6	4.6	66.6	0.0	1.4	3.1	68.3	64.8
Chinese Taipei	717	1.6	4.2	11.1	82.7	0.4	82.7	0.0	0.0	0.4	83.9	81.6
Cyprus	392	3.0	4.9	16.6	73.8	1.8	73.8	0.6	0.2	1.0	73.9	73.6
Czech Republic	424	2.0	1.8	14.0	80.9	1.2	80.9	0.0	0.4	0.9	81.7	80.0
England	362	4.3	5.0	27.4	60.6	2.8	60.6	0.3	1.9	0.6	56.3	65.0
Finland	370	2.4	5.4	38.5	52.9	0.7	52.9	0.0	0.3	0.4	50.7	55.3
Hong Kong, SAR	643	1.4	2.1	10.3	84.8	1.3	84.8	0.1	0.7	0.5	85.8	83.9
Hungary	394	0.7	3.4	14.7	78.6	2.5	78.6	0.9	0.0	1.6	75.3	81.6
Indonesia	725	3.4	6.9	9.1	79.9	0.6	79.9	0.0	0.3	0.3	82.2	77.7
Iran, Islamic Rep.	663	3.5	7.3	17.6	70.7	1.0	70.7	0.0	0.4	0.6	70.3	70.9
Israel	526	4.9	4.3	19.7	67.2	4.0	67.2	0.2	0.8	3.0	66.6	68.1
Italy	415	2.4	6.9	14.3	72.3	4.2	72.3	0.0	0.4	3.8	72.6	71.9
Japan	585	0.5	2.2	12.0	84.5	0.8	84.5	0.3	0.1	0.3	82.5	86.5
Jordan	630	6.2	6.8	24.1	60.5	2.3	60.5	0.2	0.1	2.0	65.4	56.3
Korea, Rep. of	763	1.6	1.9	10.0	86.1	0.3	86.1	0.0	0.1	0.2	83.7	88.5
Latvia (LSS)	355	1.9	2.2	13.2	77.3	5.5	77.3	0.3	3.3	1.9	81.6	73.4
Lithuania	292	2.9	2.3	19.1	71.5	4.3	71.5	0.3	1.5	2.5	68.8	74.5
Macedonia, Rep. of	.	.	.	.	.	.	.	.	.	.	.	.
Malaysia	702	2.0	3.1	20.7	73.6	0.5	73.6	0.0	0.5	0.0	75.2	71.7
Moldova	477	4.5	10.5	28.5	53.1	3.4	53.1	0.0	0.9	2.5	54.6	51.5
Morocco	647	5.7	9.6	12.3	33.8	38.6	33.8	0.3	34.7	3.5	39.6	29.4
Netherlands	365	9.7	7.6	25.9	55.3	1.6	55.3	0.0	0.1	1.4	53.5	57.3
New Zealand	435	1.5	6.8	23.7	66.1	1.9	66.1	0.2	0.0	1.7	65.6	66.6
Philippines	848	9.4	13.4	27.0	48.5	1.7	48.5	0.0	0.8	1.0	51.7	44.8
Romania	430	5.7	7.2	16.5	66.3	4.3	66.3	0.9	0.6	2.8	65.8	66.6
Russian Federation	531	1.0	2.7	18.8	75.5	2.0	75.5	0.1	1.6	0.3	78.7	72.0
Singapore	624	0.5	0.5	8.8	90.1	0.1	90.1	0.1	0.0	0.0	89.1	90.8
Slovak Republic	436	3.1	1.3	14.9	80.0	0.7	80.0	0.3	0.0	0.4	79.7	80.3
Slovenia	389	1.4	1.8	16.6	79.8	0.4	79.8	0.0	0.2	0.2	79.0	80.6
South Africa	993	6.6	12.1	22.7	55.1	3.6	55.1	0.4	1.5	1.6	55.2	55.0
Thailand	711	3.6	4.3	12.0	79.6	0.5	79.6	0.0	0.1	0.4	81.1	77.8
Tunisia	629	1.7	3.4	7.6	84.1	3.1	84.1	0.8	1.3	1.0	85.2	83.0
Turkey	990	8.7	18.5	23.0	47.2	2.7	47.2	0.0	0.3	2.4	48.0	46.5
United States	1080	1.6	3.4	9.1	84.6	1.3	84.6	0.0	0.7	0.6	86.5	82.7
International Avg.	.	3.3	5.5	17.2	70.9	3.0	70.9	0.2	1.6	1.3	71.4	70.5

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Geometry  
 Label: Length of side from similar triangle ( M022160 - P10 )  
 Item Type = MC Key = B

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	500	20.2	38.7	26.1	8.8	4.3	1.8	38.7	0.0	0.2	1.6	38.0	39.5
Belgium (Flemish)	657	24.1	50.4	15.4	5.6	3.7	0.8	50.4	0.1	0.2	0.5	52.4	48.5
Bulgaria	406	21.5	33.4	21.6	5.6	3.9	14.0	33.4	0.0	2.6	11.4	34.9	31.9
Canada	1084	23.1	34.8	24.8	9.2	5.8	2.4	34.8	0.1	0.1	2.2	32.7	37.2
Chile	735	26.4	23.5	25.7	9.3	8.5	6.7	23.5	0.0	1.8	4.8	22.8	24.1
Chinese Taipei	717	14.3	51.6	20.2	6.7	6.0	1.2	51.6	0.0	0.0	1.2	45.4	57.9
Cyprus	392	26.4	31.0	31.3	8.9	0.0	2.5	31.0	0.0	0.2	2.3	22.8	38.6
Czech Republic	424	26.8	31.7	24.9	7.8	3.2	5.7	31.7	0.0	0.4	5.3	27.9	35.6
England	362	24.2	33.9	25.8	8.6	4.1	3.5	33.9	0.0	1.9	1.6	30.4	37.5
Finland	370	26.3	39.0	22.2	7.2	4.5	0.8	39.0	0.0	0.3	0.4	34.9	43.2
Hong Kong, SAR	643	13.8	56.2	14.2	8.9	5.2	1.8	56.2	0.0	0.7	1.1	50.0	62.1
Hungary	394	22.1	43.0	17.4	10.0	4.9	2.7	43.0	0.5	0.0	2.2	35.7	50.1
Indonesia	725	26.9	26.2	25.4	9.6	9.7	2.3	26.2	0.0	0.3	1.9	22.2	30.2
Iran, Islamic Rep.	664	23.6	25.9	28.2	8.3	11.8	2.2	25.9	0.0	0.4	1.7	25.3	26.3
Israel	526	25.6	29.1	25.2	7.8	5.2	7.2	29.1	0.2	0.8	6.2	26.8	32.0
Italy	415	24.4	29.2	26.0	7.8	7.4	5.3	29.2	0.0	0.6	4.7	25.8	33.1
Japan	585	10.6	67.6	13.1	6.3	2.0	0.5	67.6	0.3	0.1	0.0	66.2	69.1
Jordan	630	22.4	31.6	20.7	10.3	13.4	1.7	31.6	0.1	0.1	1.5	34.9	28.7
Korea, Rep. of	763	10.6	70.2	11.3	5.0	2.2	0.7	70.2	0.0	0.1	0.6	69.6	70.9
Latvia (LSS)	355	26.7	30.1	23.2	8.6	2.8	8.7	30.1	0.3	3.3	5.0	27.4	32.4
Lithuania	292	18.8	31.0	25.9	8.0	6.2	10.2	31.0	0.0	1.5	8.7	22.8	40.2
Macedonia, Rep. of	506	29.8	27.4	19.4	8.8	6.9	7.8	27.4	0.5	1.1	6.2	22.3	32.8
Malaysia	702	25.9	31.6	21.5	10.9	7.1	3.1	31.6	0.0	0.5	2.5	30.2	33.4
Moldova	477	19.8	36.3	20.6	7.5	7.5	8.4	36.3	0.0	1.2	7.2	32.3	40.2
Morocco	.	.	.	.	.	.	.	.	.	.	.	.	.
Netherlands	365	26.6	43.8	12.8	13.4	2.6	0.8	43.8	0.0	0.1	0.7	40.2	47.8
New Zealand	435	27.3	34.2	24.3	7.4	5.0	1.9	34.2	0.1	0.0	1.7	32.8	35.4
Philippines	848	24.0	27.3	19.4	16.0	11.8	1.6	27.3	0.2	0.8	0.6	25.1	29.9
Romania	430	15.5	37.9	27.7	6.3	7.3	5.3	37.9	0.4	0.8	4.1	38.2	37.9
Russian Federation	531	15.7	41.1	24.9	5.6	4.7	8.0	41.1	0.8	1.6	5.7	39.4	43.0
Singapore	624	14.2	63.7	12.0	5.3	4.4	0.4	63.7	0.0	0.0	0.4	61.6	65.4
Slovak Republic	436	25.9	37.8	26.7	5.0	0.9	3.8	37.8	0.0	0.0	3.8	30.9	44.6
Slovenia	389	22.9	33.9	27.3	8.9	2.9	4.1	33.9	0.0	0.4	3.6	31.5	36.2
South Africa	993	13.9	23.2	31.9	9.5	18.2	3.3	23.2	1.3	1.6	0.4	23.5	22.9
Thailand	711	31.3	29.9	19.9	11.3	6.4	1.2	29.9	0.0	0.3	0.9	29.5	30.3
Tunisia	629	34.0	24.5	26.9	5.8	5.4	3.5	24.5	0.1	1.5	1.8	20.5	28.6
Turkey	990	20.0	21.9	29.8	9.7	14.9	3.8	21.9	0.0	0.3	3.5	21.3	22.3
United States	1080	21.5	36.3	22.9	11.0	6.4	2.0	36.3	0.1	0.7	1.2	36.4	36.3
International Avg.	.	22.4	36.7	22.6	8.4	6.1	3.8	36.7	0.1	0.7	3.0	34.2	39.4

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Algebra  
 Label: Equivalent expression: k+k+k+k+k ( M022165 - P11 )  
 Item Type = MC Key = B

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	500	7.5	54.3	33.0	4.6	0.6	54.3	0.0	0.2	0.4	50.1	59.4
Belgium (Flemish)	657	8.4	69.4	17.9	3.9	0.5	69.4	0.1	0.2	0.2	74.0	65.1
Bulgaria	406	7.4	64.7	20.0	3.6	4.3	64.7	0.7	2.8	0.7	67.8	61.5
Canada	1084	8.5	56.2	31.1	3.8	0.4	56.2	0.2	0.1	0.1	50.3	62.3
Chile	735	15.9	34.9	40.2	4.9	4.0	34.9	0.0	2.1	2.0	35.7	34.2
Chinese Taipei	717	3.8	76.0	17.9	2.4	0.0	76.0	0.0	0.0	0.0	76.4	75.6
Cyprus	392	8.8	64.8	24.2	1.5	0.6	64.8	0.2	0.2	0.2	68.6	61.3
Czech Republic	424	4.0	69.7	23.6	2.0	0.7	69.7	0.3	0.4	0.0	69.1	70.4
England	362	13.5	47.7	34.6	1.9	2.3	47.7	0.0	2.0	0.3	45.8	49.6
Finland	370	10.5	56.6	26.1	4.5	2.3	56.6	0.0	0.3	2.0	56.9	56.4
Hong Kong, SAR	643	3.3	80.0	12.3	3.0	1.3	80.0	0.2	1.0	0.2	78.7	81.2
Hungary	394	5.4	75.2	16.0	1.5	1.8	75.2	0.7	0.0	1.1	78.0	73.2
Indonesia	725	10.0	41.4	46.0	2.1	0.5	41.4	0.0	0.3	0.1	39.1	43.7
Iran, Islamic Rep.	664	16.3	36.3	42.2	4.4	0.7	36.3	0.0	0.4	0.3	33.6	38.2
Israel	526	12.2	58.4	23.5	3.8	2.0	58.4	0.0	1.0	1.0	57.5	59.8
Italy	415	12.6	56.7	24.6	3.7	2.5	56.7	0.0	0.8	1.7	57.5	55.8
Japan	585	7.8	60.9	25.6	5.1	0.6	60.9	0.4	0.1	0.0	57.8	63.9
Jordan	630	14.2	48.3	28.3	7.5	1.6	48.3	0.2	0.1	1.3	50.5	46.5
Korea, Rep. of	763	5.3	69.4	21.2	3.7	0.4	69.4	0.0	0.1	0.3	65.3	73.5
Latvia (LSS)	355	3.8	66.7	23.4	0.9	5.2	66.7	0.3	3.6	1.3	68.8	64.7
Lithuania	292	9.9	52.4	29.2	3.5	4.9	52.4	0.0	1.5	3.4	50.4	54.6
Macedonia, Rep. of	506	10.8	62.2	22.6	1.4	3.0	62.2	0.2	1.5	1.3	63.8	60.4
Malaysia	702	6.9	67.4	22.5	2.3	0.9	67.4	0.0	0.5	0.4	70.0	64.4
Moldova	477	11.2	55.0	24.3	5.8	3.6	55.0	0.0	1.5	2.1	54.2	55.7
Morocco	650	7.4	18.9	29.1	3.2	41.4	18.9	0.4	37.1	3.9	18.3	19.4
Netherlands	365	8.3	57.2	31.0	1.9	1.7	57.2	0.0	0.6	1.1	58.8	55.4
New Zealand	435	11.2	53.5	30.9	3.0	1.4	53.5	0.7	0.2	0.4	52.4	54.6
Philippines	848	18.7	36.7	34.4	8.3	2.0	36.7	0.3	0.9	0.8	39.6	33.2
Romania	431	8.7	64.6	18.9	4.9	3.0	64.6	1.0	0.8	1.2	67.4	62.4
Russian Federation	531	9.9	68.5	17.1	2.2	2.4	68.5	0.3	1.8	0.2	69.6	67.3
Singapore	624	4.8	76.2	15.9	3.0	0.1	76.2	0.0	0.0	0.1	71.6	79.9
Slovak Republic	436	4.1	80.1	14.5	0.3	1.0	80.1	0.3	0.0	0.6	80.0	80.3
Slovenia	389	7.5	72.3	14.3	4.6	1.3	72.3	0.0	0.4	0.9	72.3	72.3
South Africa	993	13.2	38.1	41.9	3.7	3.1	38.1	0.7	1.7	0.8	39.9	36.1
Thailand	711	9.3	32.6	53.7	3.9	0.5	32.6	0.0	0.4	0.1	31.5	34.0
Tunisia	629	9.4	53.4	28.3	3.7	5.3	53.4	2.1	1.7	1.5	53.0	53.8
Turkey	990	25.7	59.0	6.0	7.2	2.0	59.0	0.0	0.3	1.8	64.9	53.8
United States	1080	7.3	46.0	41.3	3.7	1.7	46.0	0.0	0.7	1.0	41.9	49.9
International Avg.	.	9.6	57.4	26.5	3.6	2.9	57.4	0.3	1.8	0.9	57.4	57.5

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Measurement  
 Label: Length of string pulled straight ( M022168 - P12 )  
 Item Type = MC Key = C

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	500	2.3	13.7	51.9	31.4	0.7	51.9	0.0	0.2	0.5	46.9	57.7
Belgium (Flemish)	657	1.9	12.0	54.4	31.4	0.4	54.4	0.1	0.2	0.1	55.4	53.5
Bulgaria	406	4.6	11.7	38.9	40.5	4.3	38.9	0.0	2.8	1.4	34.4	43.5
Canada	1084	2.5	12.7	46.0	37.9	0.8	46.0	0.1	0.1	0.6	44.6	47.8
Chile	734	5.2	11.8	25.1	54.3	3.6	25.1	0.0	2.1	1.5	26.4	23.7
Chinese Taipei	717	1.4	15.4	52.8	30.4	0.0	52.8	0.0	0.0	0.0	48.9	56.8
Cyprus	392	2.7	12.1	36.5	48.3	0.4	36.5	0.0	0.2	0.2	32.6	40.2
Czech Republic	424	3.3	12.0	52.8	30.5	1.3	52.8	0.0	0.4	1.0	44.4	61.8
England	362	1.8	10.7	43.4	41.9	2.3	43.4	0.0	2.0	0.3	45.3	41.3
Finland	370	1.7	17.6	50.5	29.5	0.6	50.5	0.0	0.3	0.3	50.6	50.3
Hong Kong, SAR	643	1.7	16.5	53.4	27.0	1.4	53.4	0.0	1.0	0.3	52.5	54.2
Hungary	394	0.5	15.4	58.7	25.2	0.2	58.7	0.0	0.0	0.2	53.6	63.2
Indonesia	724	5.8	8.3	22.7	62.6	0.7	22.7	0.3	0.3	0.0	20.8	24.5
Iran, Islamic Rep.	664	8.1	15.8	33.3	41.1	1.8	33.3	0.0	0.4	1.4	31.1	34.8
Israel	526	4.5	14.1	34.5	43.9	3.0	34.5	0.0	1.0	2.0	30.3	39.8
Italy	415	2.6	13.5	32.2	50.4	1.3	32.2	0.0	0.8	0.5	28.0	36.9
Japan	585	0.4	23.1	57.2	19.2	0.1	57.2	0.0	0.1	0.0	54.4	60.0
Jordan	630	7.1	14.9	25.5	51.5	1.0	25.5	0.0	0.1	0.9	18.7	31.4
Korea, Rep. of	763	2.6	14.1	50.2	32.8	0.3	50.2	0.0	0.1	0.2	47.8	52.5
Latvia (LSS)	354	3.0	11.3	52.8	29.0	3.9	52.8	0.2	3.6	0.0	51.7	53.7
Lithuania	292	2.7	16.6	44.0	33.7	3.1	44.0	0.3	1.8	1.1	37.4	51.3
Macedonia, Rep. of	506	7.3	8.2	31.7	50.1	2.7	31.7	0.0	1.5	1.2	29.9	33.6
Malaysia	702	1.8	10.9	46.2	40.2	0.8	46.2	0.0	0.5	0.3	46.4	45.9
Moldova	477	4.9	13.7	40.0	36.8	4.7	40.0	0.0	1.5	3.2	32.9	46.9
Morocco	650	4.3	9.8	11.0	32.2	42.7	11.0	0.3	37.9	4.5	12.8	9.7
Netherlands	365	0.2	16.7	56.5	25.9	0.8	56.5	0.0	0.6	0.2	53.5	59.7
New Zealand	435	3.4	16.6	44.6	34.8	0.7	44.6	0.2	0.2	0.2	39.1	49.9
Philippines	848	13.0	16.1	15.1	54.4	1.5	15.1	0.0	0.9	0.7	14.9	15.3
Romania	431	7.3	13.1	36.2	40.2	3.2	36.2	0.4	0.8	1.9	32.4	40.2
Russian Federation	531	1.0	18.9	48.2	28.9	3.0	48.2	0.3	1.8	0.9	46.7	49.9
Singapore	624	0.9	13.9	52.4	32.6	0.2	52.4	0.0	0.0	0.2	50.4	53.9
Slovak Republic	436	1.0	11.5	57.1	30.1	0.3	57.1	0.0	0.0	0.3	50.8	63.5
Slovenia	389	3.2	11.9	51.8	32.6	0.4	51.8	0.0	0.4	0.0	50.5	53.1
South Africa	993	14.5	15.2	14.9	53.0	2.4	14.9	0.4	1.7	0.4	13.5	16.5
Thailand	711	2.5	14.0	41.2	41.7	0.7	41.2	0.0	0.5	0.1	39.4	43.4
Tunisia	629	6.0	16.9	37.8	35.5	3.8	37.8	1.3	1.8	0.7	36.7	39.0
Turkey	990	6.7	10.6	29.5	52.1	1.1	29.5	0.1	0.3	0.7	26.0	32.7
United States	1080	3.4	16.8	38.8	39.9	1.1	38.8	0.0	0.8	0.3	36.6	40.9
International Avg.	.	3.9	13.9	41.3	38.2	2.7	41.3	0.1	1.8	0.7	38.6	44.0

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Fractions and Number Sense  
 Label: Estimate of total cars in parking lot ( M022169 - P13 )  
 Item Type = MC Key = C

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	500	10.6	7.6	77.1	3.4	1.3	77.1	0.0	0.4	0.8	77.7	76.4
Belgium (Flemish)	657	5.5	10.9	82.5	0.7	0.4	82.5	0.0	0.2	0.3	86.2	79.1
Bulgaria	406	12.1	13.7	59.7	5.9	8.6	59.7	0.0	3.2	5.4	62.1	57.3
Canada	1084	12.0	3.9	78.1	2.2	3.7	78.1	0.0	0.3	3.3	80.7	75.7
Chile	734	21.1	16.3	48.2	9.0	5.3	48.2	0.0	3.5	1.9	48.9	47.5
Chinese Taipei	717	8.3	7.1	81.3	3.2	0.0	81.3	0.0	0.0	0.0	81.7	81.0
Cyprus	391	17.3	13.9	60.2	6.6	1.9	60.2	0.4	0.4	1.1	59.2	61.1
Czech Republic	424	9.1	9.7	77.7	2.5	0.9	77.7	0.3	0.4	0.2	75.6	79.9
England	362	11.7	6.1	74.0	5.5	2.8	74.0	0.0	2.0	0.8	75.3	72.6
Finland	370	10.3	7.2	79.1	2.0	1.4	79.1	0.0	0.3	1.0	78.2	80.1
Hong Kong, SAR	641	4.2	6.0	85.0	2.9	2.0	85.0	0.2	1.0	0.8	88.2	81.9
Hungary	394	8.8	7.7	78.2	2.9	2.5	78.2	0.5	0.0	2.0	78.9	77.7
Indonesia	724	24.2	20.3	43.8	10.1	1.7	43.8	0.3	0.3	1.0	42.6	44.9
Iran, Islamic Rep.	664	21.5	19.9	47.5	8.8	2.3	47.5	0.0	0.8	1.6	39.1	53.3
Israel	526	13.8	10.0	63.5	7.5	5.2	63.5	0.0	1.6	3.6	62.5	64.5
Italy	415	26.1	9.9	52.2	9.6	2.1	52.2	0.0	0.8	1.3	48.3	56.7
Japan	585	8.9	5.5	82.3	2.6	0.6	82.3	0.0	0.1	0.5	79.6	85.0
Jordan	630	16.9	13.3	57.8	10.4	1.6	57.8	0.2	0.4	0.9	57.5	58.0
Korea, Rep. of	763	8.0	5.3	81.7	4.4	0.6	81.7	0.0	0.1	0.5	80.1	83.3
Latvia (LSS)	354	14.7	13.4	61.6	4.2	6.1	61.6	0.2	3.6	2.2	65.9	57.8
Lithuania	292	14.7	14.8	57.1	6.8	6.6	57.1	0.0	2.9	3.7	53.7	61.0
Macedonia, Rep. of	506	18.0	14.7	53.3	6.3	7.7	53.3	0.8	1.5	5.4	52.5	54.1
Malaysia	702	7.9	8.0	77.7	5.3	1.2	77.7	0.0	0.8	0.3	78.2	77.0
Moldova	477	16.2	21.1	52.1	4.5	6.2	52.1	0.2	2.3	3.7	50.4	53.7
Morocco	649	15.9	14.2	17.3	5.8	46.8	17.3	0.7	40.6	5.5	16.1	18.2
Netherlands	365	8.7	6.6	80.7	3.2	0.8	80.7	0.0	0.6	0.2	83.5	77.6
New Zealand	435	14.8	11.8	67.5	5.5	0.4	67.5	0.0	0.2	0.2	67.5	67.5
Philippines	848	29.4	19.3	42.4	6.8	2.2	42.4	0.3	1.3	0.6	40.6	44.4
Romania	431	13.0	14.6	55.5	13.3	3.5	55.5	0.3	1.5	1.7	52.4	58.9
Russian Federation	531	12.9	11.7	65.1	4.9	5.3	65.1	0.6	2.3	2.4	65.3	64.9
Singapore	624	1.5	2.4	94.0	2.1	0.0	94.0	0.0	0.0	0.0	95.3	92.9
Slovak Republic	436	11.8	5.5	78.3	3.5	0.9	78.3	0.0	0.3	0.6	79.3	77.4
Slovenia	389	10.3	8.7	75.6	4.2	1.2	75.6	0.2	0.4	0.5	76.9	74.5
South Africa	993	27.7	20.3	30.2	19.2	2.7	30.2	0.3	1.9	0.5	27.8	32.9
Thailand	711	19.3	13.8	58.5	7.7	0.8	58.5	0.0	0.7	0.1	55.9	61.5
Tunisia	629	19.1	19.5	47.6	8.8	5.0	47.6	1.0	2.2	1.8	46.5	48.7
Turkey	990	23.8	18.2	50.3	6.4	1.5	50.3	0.0	0.3	1.2	45.1	54.8
United States	1080	11.1	6.2	78.9	2.6	1.3	78.9	0.1	0.9	0.2	81.2	76.7
International Avg.	.	14.2	11.6	64.6	5.8	3.8	64.6	0.2	2.1	1.5	64.1	65.0

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Fractions and Number Sense  
 Label: Estimate of distance from explosion ( M022172 - P14 )  
 Item Type = MC Key = B

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	500	11.9	62.4	14.2	10.1	1.5	62.4	0.2	0.4	0.8	59.3	65.9
Belgium (Flemish)	657	9.2	69.3	10.1	10.3	1.1	69.3	0.2	0.2	0.8	71.1	67.6
Bulgaria	406	7.5	54.7	11.9	13.6	12.3	54.7	0.0	6.0	6.3	58.3	51.0
Canada	1084	10.5	63.7	11.9	10.1	3.7	63.7	0.1	1.9	1.7	61.6	66.3
Chile	735	16.5	36.9	17.3	21.5	7.7	36.9	0.0	4.1	3.6	37.3	36.5
Chinese Taipei	717	6.5	77.1	8.3	8.0	0.1	77.1	0.0	0.0	0.1	72.9	81.3
Cyprus	390	14.3	50.3	19.7	14.0	1.7	50.3	0.3	0.4	1.0	52.0	48.7
Czech Republic	424	11.6	70.5	8.6	7.4	1.8	70.5	0.0	0.4	1.4	65.4	76.0
England	362	17.9	50.1	16.4	12.2	3.4	50.1	0.0	2.5	0.9	44.1	56.4
Finland	370	10.1	62.8	16.5	9.2	1.4	62.8	0.0	0.8	0.6	64.9	60.7
Hong Kong, SAR	640	5.7	78.0	10.6	4.1	1.6	78.0	0.2	1.0	0.4	74.6	81.3
Hungary	394	7.0	61.0	15.1	14.6	2.2	61.0	0.0	0.5	1.7	58.3	64.3
Indonesia	724	17.1	41.2	14.3	23.7	3.7	41.2	0.0	0.3	3.4	42.2	40.1
Iran, Islamic Rep.	664	16.7	38.0	16.1	26.0	3.3	38.0	0.0	0.9	2.4	32.3	42.0
Israel	526	12.0	50.6	15.4	15.5	6.5	50.6	0.1	1.9	4.4	50.3	51.1
Italy	415	16.1	52.4	14.1	9.7	7.7	52.4	0.0	1.4	6.3	51.2	53.7
Japan	585	5.8	81.5	7.3	4.8	0.6	81.5	0.2	0.5	0.0	76.6	86.3
Jordan	630	16.3	42.4	15.1	23.8	2.4	42.4	0.3	0.5	1.6	39.0	45.2
Korea, Rep. of	763	4.3	78.0	8.2	8.9	0.5	78.0	0.0	0.1	0.4	74.2	81.8
Latvia (LSS)	355	11.6	52.1	16.6	12.9	6.8	52.1	0.0	4.6	2.2	54.7	49.7
Lithuania	292	11.7	61.5	11.3	9.1	6.5	61.5	0.0	3.5	3.0	61.7	61.3
Macedonia, Rep. of	506	11.7	46.6	14.6	19.2	7.9	46.6	0.3	2.5	5.1	44.9	48.4
Malaysia	702	6.5	69.9	10.5	11.3	1.9	69.9	0.0	1.0	0.9	70.8	68.7
Moldova	477	11.6	44.9	18.1	17.1	8.3	44.9	0.0	2.7	5.6	42.0	47.7
Morocco	650	11.3	13.0	11.5	13.0	51.2	13.0	0.3	42.8	8.1	13.4	12.7
Netherlands	365	11.4	63.2	17.0	7.4	1.0	63.2	0.0	0.6	0.4	64.4	61.8
New Zealand	435	19.5	50.2	13.5	15.9	0.9	50.2	0.0	0.2	0.7	48.7	51.6
Philippines	848	23.8	42.9	15.1	15.5	2.7	42.9	0.0	1.3	1.4	44.9	40.6
Romania	431	12.9	40.4	14.9	24.7	7.1	40.4	0.4	1.5	5.2	38.3	42.8
Russian Federation	531	11.1	59.2	8.9	14.0	6.7	59.2	0.2	2.8	3.7	62.3	55.7
Singapore	624	4.4	82.7	6.2	6.6	0.2	82.7	0.0	0.0	0.2	84.3	81.5
Slovak Republic	436	5.8	75.7	5.9	9.1	3.5	75.7	0.0	0.5	3.0	73.5	78.0
Slovenia	389	5.7	70.7	11.6	9.4	2.5	70.7	0.0	0.4	2.1	72.4	69.2
South Africa	993	31.2	21.2	20.8	23.5	3.3	21.2	0.4	2.1	0.8	18.3	24.4
Thailand	711	13.3	58.7	15.9	10.6	1.5	58.7	0.0	0.8	0.8	59.9	57.2
Tunisia	629	11.7	42.0	25.5	15.4	5.4	42.0	0.7	3.1	1.5	39.5	44.6
Turkey	990	18.2	50.4	16.6	13.0	1.8	50.4	0.0	0.4	1.4	50.9	50.0
United States	1080	11.9	62.8	13.9	10.1	1.3	62.8	0.0	0.9	0.4	62.9	62.7
International Avg.	.	12.2	56.0	13.7	13.3	4.8	56.0	0.1	2.5	2.2	55.1	57.0

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent



Mathematics: Fractions and Number Sense  
 Label: Fraction of cherries in basket ( M022173 - P15 )  
 Item Type = MC Key = A

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	500	51.2	18.1	13.9	15.4	1.5	51.2	0.1	0.4	1.0	47.4	55.7
Belgium (Flemish)	657	62.3	14.5	8.0	14.2	1.0	62.3	0.0	0.2	0.9	67.5	57.4
Bulgaria	406	42.5	17.6	13.2	17.3	9.4	42.5	0.0	6.1	3.3	44.1	40.9
Canada	1084	53.0	15.7	11.8	15.7	3.8	53.0	0.0	1.9	1.8	48.6	57.9
Chile	735	22.4	18.4	16.0	34.2	9.1	22.4	0.0	4.6	4.5	21.6	23.1
Chinese Taipei	717	67.9	6.1	6.9	18.7	0.4	67.9	0.0	0.1	0.3	64.6	71.3
Cyprus	391	55.6	16.2	9.2	18.1	0.8	55.6	0.0	0.4	0.4	54.5	56.6
Czech Republic	424	42.8	20.4	7.8	23.6	5.3	42.8	0.0	0.8	4.5	40.4	45.4
England	362	42.2	23.6	10.2	19.2	4.7	42.2	0.0	2.5	2.2	37.0	47.6
Finland	370	48.4	27.2	10.9	10.8	2.7	48.4	0.0	0.8	1.9	47.9	48.8
Hong Kong, SAR	640	75.1	8.0	6.8	8.7	1.4	75.1	0.2	1.0	0.2	75.9	74.3
Hungary	394	54.8	17.4	9.6	15.9	2.3	54.8	0.3	0.5	1.5	55.2	54.9
Indonesia	725	34.3	22.8	13.8	26.5	2.5	34.3	0.1	1.0	1.4	38.6	29.9
Iran, Islamic Rep.	664	31.8	17.1	14.6	33.4	3.0	31.8	0.0	1.0	2.0	25.9	35.9
Israel	526	42.8	20.5	9.1	21.3	6.4	42.8	0.0	2.6	3.7	39.0	47.5
Italy	415	31.8	24.2	12.6	24.0	7.4	31.8	0.0	3.4	4.0	29.5	34.5
Japan	585	61.9	18.5	9.2	9.2	1.1	61.9	0.0	0.5	0.7	58.3	65.5
Jordan	630	34.4	17.9	17.4	27.8	2.6	34.4	0.5	0.5	1.6	37.4	31.7
Korea, Rep. of	763	54.9	12.6	9.7	22.0	0.8	54.9	0.0	0.2	0.5	52.6	57.3
Latvia (LSS)	355	49.4	18.2	12.1	12.7	7.6	49.4	0.2	5.3	2.1	47.5	51.0
Lithuania	292	45.8	15.6	9.5	18.8	10.3	45.8	0.0	4.1	6.1	47.6	43.8
Macedonia, Rep. of	506	38.1	18.4	10.8	23.0	9.7	38.1	0.6	3.1	6.0	39.6	36.5
Malaysia	702	55.5	19.9	9.7	12.6	2.3	55.5	0.0	1.4	0.9	59.7	50.4
Moldova	477	44.5	15.6	9.2	23.5	7.2	44.5	0.0	3.0	4.2	44.2	44.8
Morocco	650	14.3	9.3	9.6	16.2	50.6	14.3	1.0	46.4	3.2	16.8	12.4
Netherlands	365	60.8	14.4	6.1	17.7	0.9	60.8	0.0	0.6	0.4	54.5	67.6
New Zealand	435	42.6	22.5	12.7	20.5	1.7	42.6	0.0	0.2	1.5	40.1	45.0
Philippines	847	22.4	23.6	9.3	42.1	2.5	22.4	0.0	1.9	0.6	22.2	22.7
Romania	431	47.4	14.8	13.0	19.1	5.7	47.4	0.4	2.2	3.0	45.3	49.0
Russian Federation	531	51.3	17.9	9.1	14.2	7.4	51.3	0.5	3.3	3.6	51.4	51.2
Singapore	624	85.1	7.5	4.2	2.8	0.4	85.1	0.0	0.0	0.4	85.2	85.0
Slovak Republic	436	48.3	20.4	8.7	16.6	6.1	48.3	0.0	1.5	4.6	50.3	46.3
Slovenia	389	50.7	20.6	9.4	16.0	3.3	50.7	0.0	0.4	2.9	54.5	47.1
South Africa	993	18.4	14.9	20.3	42.0	4.3	18.4	1.4	2.7	0.2	17.3	19.7
Thailand	711	29.0	19.5	17.1	32.6	1.7	29.0	0.0	0.8	1.0	28.1	30.2
Tunisia	629	31.2	23.0	13.5	26.4	5.9	31.2	0.7	3.5	1.6	26.4	36.2
Turkey	990	31.6	29.6	16.8	19.3	2.7	31.6	0.1	0.5	2.2	28.8	34.1
United States	1080	52.4	19.2	13.5	13.3	1.6	52.4	0.0	0.9	0.7	53.1	51.7
International Avg.	.	45.5	17.9	11.2	20.2	5.2	45.5	0.2	2.9	2.1	44.7	46.3

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Data Representation, Analysis and Probability  
 Label: Day/time in table at shown temperature ( M022260 - P16 )  
 Item Type = MC Key = A

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	500	90.6	3.1	4.4	1.5	0.4	90.6	0.0	0.4	0.0	92.9	87.8
Belgium (Flemish)	657	94.9	0.8	2.7	1.1	0.6	94.9	0.2	0.3	0.2	96.8	93.2
Bulgaria	406	71.8	8.9	5.3	2.3	11.7	71.8	0.4	6.5	4.7	75.3	68.2
Canada	1084	89.2	2.2	2.6	2.0	4.0	89.2	0.0	2.1	2.0	90.5	87.8
Chile	735	67.4	8.2	7.2	8.4	8.9	67.4	0.0	5.2	3.7	72.5	62.4
Chinese Taipei	717	91.0	3.1	2.4	3.0	0.5	91.0	0.0	0.1	0.4	93.2	88.8
Cyprus	392	86.0	4.4	3.6	4.5	1.5	86.0	0.3	0.4	0.8	91.8	80.6
Czech Republic	424	90.9	3.2	2.6	0.8	2.5	90.9	0.4	0.8	1.2	92.5	89.2
England	362	91.8	1.4	1.6	1.6	3.6	91.8	0.0	3.1	0.6	91.0	92.6
Finland	370	93.4	1.0	1.6	2.7	1.3	93.4	0.1	1.0	0.2	92.5	94.5
Hong Kong, SAR	641	90.0	3.7	2.8	2.3	1.3	90.0	0.0	1.3	0.0	93.4	86.7
Hungary	394	86.5	2.2	7.1	2.7	1.4	86.5	0.0	0.5	0.9	85.9	87.0
Indonesia	725	50.2	24.6	12.5	10.1	2.6	50.2	0.0	1.5	1.1	47.7	52.6
Iran, Islamic Rep.	664	58.9	18.5	9.3	8.9	4.4	58.9	0.2	1.2	3.0	56.0	60.8
Israel	526	74.1	8.2	5.5	5.8	6.3	74.1	0.1	3.7	2.5	75.0	73.3
Italy	415	81.0	7.0	4.3	3.1	4.5	81.0	0.2	3.6	0.7	84.1	77.5
Japan	585	95.7	1.0	1.4	1.2	0.8	95.7	0.0	0.6	0.1	95.9	95.4
Jordan	630	65.3	13.9	7.2	10.7	2.9	65.3	0.3	1.0	1.6	66.1	64.6
Korea, Rep. of	763	91.9	1.9	2.0	3.8	0.5	91.9	0.1	0.4	0.0	92.2	91.7
Latvia (LSS)	355	82.7	2.2	5.7	2.5	6.9	82.7	0.3	5.3	1.3	84.0	81.5
Lithuania	292	84.4	1.3	2.6	4.8	6.9	84.4	0.3	4.8	1.8	81.8	87.3
Macedonia, Rep. of	506	64.9	4.8	9.6	10.7	9.9	64.9	0.5	4.6	4.9	63.9	66.0
Malaysia	702	84.7	6.3	3.0	3.6	2.4	84.7	0.0	1.5	0.9	85.5	83.8
Moldova	477	66.1	8.4	10.8	5.7	9.0	66.1	0.5	3.5	5.1	65.7	66.6
Morocco	.	.	.	.	.	.	.	.	.	.	.	.
Netherlands	365	89.7	4.7	2.7	2.2	0.8	89.7	0.0	0.6	0.2	91.8	87.4
New Zealand	435	87.7	4.1	4.1	3.0	1.1	87.7	0.0	0.6	0.5	93.3	82.2
Philippines	771	54.0	22.7	9.7	9.5	4.1	54.0	0.0	1.7	2.4	53.9	54.1
Romania	431	65.4	13.5	9.8	7.8	3.5	65.4	0.4	2.2	0.8	66.4	65.0
Russian Federation	531	85.3	3.3	1.2	3.6	6.7	85.3	0.8	4.3	1.6	87.0	83.3
Singapore	624	95.3	1.8	1.7	0.7	0.6	95.3	0.0	0.1	0.4	96.9	94.0
Slovak Republic	436	90.5	3.1	2.2	1.0	3.2	90.5	0.0	1.9	1.3	91.8	89.3
Slovenia	389	90.9	2.4	1.7	4.0	1.0	90.9	0.2	0.4	0.3	92.9	89.0
South Africa	993	43.3	21.7	17.6	13.5	3.9	43.3	0.6	2.7	0.6	45.8	40.5
Thailand	.	.	.	.	.	.	.	.	.	.	.	.
Tunisia	.	.	.	.	.	.	.	.	.	.	.	.
Turkey	990	38.5	20.5	26.3	11.8	2.9	38.5	0.1	0.8	1.9	39.3	37.8
United States	1080	89.0	3.7	4.3	1.8	1.1	89.0	0.0	1.0	0.2	91.2	86.9
International Avg.	.	79.2	6.9	5.7	4.6	3.5	79.2	0.2	2.0	1.4	80.5	78.0

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Fractions and Number Sense  
 Label: Write decimal as fraction ( M022178 - P17 )  
 Item Type = SA Key = X

COUNTRY	N	NOT REACHED										1.GIRL		2.BOY	
		10	70	71	72	73	77	79	99	V1	ED	OMIT	% Right	% Right	
Australia	500	41.9	12.0	1.9	4.3	7.2	0.0	22.8	9.8	41.9	0.4	9.3	42.6	41.0	
Belgium (Flemish)	657	56.0	16.3	1.8	5.6	2.7	0.0	12.6	5.0	56.0	0.4	4.5	61.1	51.3	
Bulgaria	404	42.4	7.9	0.4	0.2	0.6	0.0	17.4	31.1	42.4	9.0	22.1	47.5	37.2	
Canada	1084	50.4	8.7	1.7	1.8	6.5	0.0	21.9	9.1	50.4	2.3	6.8	49.9	51.1	
Chile	734	10.7	5.4	4.2	2.4	3.5	4.6	25.2	43.9	10.7	8.5	35.4	11.8	9.6	
Chinese Taipei	717	70.8	2.8	0.6	1.0	0.7	0.0	15.8	8.3	70.8	0.3	8.1	71.5	70.2	
Cyprus	390	21.8	21.4	4.2	7.1	6.9	0.0	20.6	18.0	21.8	0.9	17.2	24.6	19.1	
Czech Republic	424	30.1	35.4	4.7	4.4	2.5	0.0	16.2	6.8	30.1	0.8	5.9	31.3	28.8	
England	362	17.8	2.5	1.8	6.9	16.7	0.0	34.3	20.0	17.8	3.1	17.0	13.4	22.5	
Finland	369	18.7	3.4	0.9	0.6	8.5	0.0	48.7	19.2	18.7	1.0	18.2	20.7	16.7	
Hong Kong, SAR	641	73.9	2.2	4.3	0.5	1.2	0.0	11.4	6.7	73.9	1.3	5.4	75.7	72.1	
Hungary	394	39.5	20.0	1.8	4.2	3.6	0.0	15.3	15.5	39.5	1.0	14.5	43.3	35.8	
Indonesia	725	21.6	11.1	1.5	2.0	3.4	0.0	40.8	19.6	21.6	2.5	17.0	24.1	19.1	
Iran, Islamic Rep.	664	43.3	29.4	3.8	0.0	1.1	0.0	12.2	10.1	43.3	1.8	8.3	42.1	44.1	
Israel	526	24.1	9.8	3.9	4.1	6.0	0.0	22.2	29.9	24.1	5.2	24.7	22.6	26.0	
Italy	414	25.4	10.3	4.8	5.2	4.7	0.0	23.1	26.6	25.4	4.1	22.4	24.8	26.1	
Japan	585	65.1	12.6	2.4	0.8	1.8	0.0	12.3	4.9	65.1	0.6	4.3	61.9	68.2	
Jordan	630	21.6	35.5	9.7	1.8	2.0	0.0	20.2	9.1	21.6	1.6	7.5	20.0	23.0	
Korea, Rep. of	762	77.8	6.4	1.6	0.7	0.1	0.0	7.9	5.4	77.8	0.4	5.1	77.5	78.1	
Latvia (LSS)	355	27.5	20.8	5.2	1.4	2.3	0.0	26.5	16.4	27.5	6.3	10.1	26.3	28.6	
Lithuania	292	23.5	23.1	2.6	5.4	3.5	0.0	16.8	25.0	23.5	6.0	19.0	25.3	21.6	
Macedonia, Rep. of	506	12.8	6.5	1.1	1.7	4.3	0.0	19.9	53.7	12.8	8.5	45.2	13.8	11.7	
Malaysia	701	39.9	17.9	3.4	1.3	8.6	0.0	19.3	9.5	39.9	2.0	7.6	44.4	34.4	
Moldova	477	54.5	12.3	2.6	1.6	1.1	0.0	13.1	14.7	54.5	4.6	10.1	52.2	56.9	
Morocco	650	3.2	3.1	3.0	1.0	0.2	0.0	14.3	75.2	3.2	49.8	25.4	2.7	3.7	
Netherlands	365	31.0	4.5	0.9	4.5	7.9	0.0	43.8	7.3	31.0	0.8	6.6	28.7	33.5	
New Zealand	435	23.3	11.7	2.6	3.6	12.6	0.0	34.4	11.6	23.3	1.1	10.5	22.5	24.1	
Philippines	848	11.7	10.3	0.6	0.2	6.8	0.0	49.6	20.8	11.7	4.5	16.3	12.8	10.3	
Romania	431	41.3	13.7	5.0	1.2	1.2	0.0	17.3	20.2	41.3	2.7	17.5	44.2	38.1	
Russian Federation	531	41.7	21.1	5.0	1.6	1.8	0.0	9.9	19.0	41.7	5.6	13.3	41.9	41.5	
Singapore	624	86.5	1.9	0.2	0.2	1.1	0.0	7.4	2.6	86.5	0.3	2.3	87.9	85.4	
Slovak Republic	436	41.8	32.5	1.4	4.6	3.3	0.0	10.1	6.3	41.8	2.5	3.7	41.8	41.8	
Slovenia	389	48.4	15.9	4.0	2.6	3.3	0.0	16.3	9.5	48.4	0.4	9.1	50.5	46.5	
South Africa	992	4.2	6.5	5.6	10.6	5.1	0.0	56.6	11.3	4.2	2.9	8.5	4.1	4.4	
Thailand	711	23.6	13.0	3.0	1.6	11.3	0.0	37.9	9.7	23.6	1.9	7.7	24.5	22.5	
Tunisia	629	34.1	10.4	9.6	0.9	0.3	0.0	32.4	12.2	34.1	7.2	5.0	32.4	35.9	
Turkey	990	24.0	14.5	2.7	6.4	2.3	0.0	26.9	23.1	24.0	1.3	21.8	28.6	20.0	
United States	1080	45.9	6.2	0.8	3.1	7.6	0.0	28.6	7.8	45.9	1.0	6.8	45.9	45.9	
International Avg.	.	36.1	13.1	3.0	2.8	4.3	0.1	23.2	17.2	36.1	4.1	13.2	36.8	35.4	

V1 = % Scoring 1 or better V2 = % Scoring 2 or better V3 = % Scoring 3 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Algebra  
 Label: Total number of books three boys have ( M022251 - Q01 )  
 Item Type = MC Key = C

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	500	39.7	7.2	33.4	4.8	11.9	3.0	33.4	0.6	0.0	2.5	35.1	31.3
Belgium (Flemish)	658	37.0	12.3	33.2	5.7	8.7	3.3	33.2	0.8	0.0	2.5	34.3	32.1
Bulgaria	407	31.6	6.4	34.1	6.2	11.1	10.5	34.1	0.0	0.0	10.5	34.3	34.0
Canada	1082	43.3	7.1	30.6	5.3	12.1	1.7	30.6	0.0	0.0	1.7	34.9	26.2
Chile	726	28.4	11.8	23.0	11.8	13.7	11.4	23.0	0.0	2.0	9.4	23.3	22.7
Chinese Taipei	717	33.2	3.8	53.0	4.4	4.7	0.9	53.0	0.0	0.0	0.9	53.6	52.3
Cyprus	395	55.0	3.5	26.3	4.3	9.5	1.3	26.3	0.0	0.0	1.3	26.5	26.2
Czech Republic	424	36.4	6.2	27.9	4.9	14.7	9.8	27.9	0.0	0.4	9.5	28.8	26.9
England	362	37.8	14.0	24.6	6.4	12.7	4.4	24.6	0.3	0.0	4.2	27.2	21.9
Finland	370	34.5	15.6	24.7	5.7	16.4	3.2	24.7	0.0	0.0	3.2	23.9	25.5
Hong Kong, SAR	644	37.0	4.6	49.3	6.5	2.2	0.4	49.3	0.2	0.0	0.2	52.3	46.4
Hungary	393	33.6	4.8	40.9	5.2	9.2	6.2	40.9	0.0	0.0	6.2	39.8	42.4
Indonesia	725	38.2	16.3	14.7	5.1	20.9	4.7	14.7	0.1	0.2	4.4	13.1	16.4
Iran, Islamic Rep.	663	32.5	12.2	20.6	6.0	22.9	5.7	20.6	0.0	0.3	5.5	21.4	20.1
Israel	528	37.5	8.1	35.9	3.4	9.3	5.7	35.9	0.0	0.6	5.1	37.9	33.7
Italy	415	33.8	5.4	31.6	5.8	12.1	11.3	31.6	0.0	0.0	11.3	35.0	27.6
Japan	584	50.1	3.1	36.3	5.7	4.0	0.7	36.3	0.0	0.2	0.5	39.3	33.3
Jordan	631	42.5	13.8	22.4	7.3	10.5	3.6	22.4	0.9	0.0	2.7	22.3	22.5
Korea, Rep. of	763	37.4	6.6	45.6	4.5	5.6	0.3	45.6	0.0	0.0	0.3	48.7	42.6
Latvia (LSS)	354	39.1	8.7	27.7	3.2	9.6	11.7	27.7	0.0	0.0	11.7	31.6	24.4
Lithuania	292	34.4	8.0	31.9	3.0	13.3	9.4	31.9	0.0	0.9	8.4	35.4	27.9
Macedonia, Rep. of	506	33.4	8.1	21.8	6.0	14.5	16.2	21.8	0.4	0.0	15.8	21.3	22.3
Malaysia	702	37.7	15.6	23.9	5.9	13.9	3.0	23.9	0.0	0.1	2.9	24.3	23.4
Moldova	477	28.3	11.3	24.1	4.6	25.7	6.0	24.1	0.1	0.0	5.9	25.8	22.5
Morocco	654	37.7	12.8	16.2	6.4	9.8	17.1	16.2	0.8	0.0	16.4	14.5	17.5
Netherlands	365	45.3	7.8	30.6	4.3	10.4	1.6	30.6	0.0	0.0	1.6	31.3	29.8
New Zealand	433	33.0	13.1	33.0	6.2	13.1	1.6	33.0	0.2	0.5	0.9	33.1	33.0
Philippines	849	55.8	11.3	13.7	5.1	13.2	0.9	13.7	0.3	0.0	0.6	13.5	14.1
Romania	431	30.0	7.5	29.6	7.1	21.2	4.6	29.6	0.0	0.0	4.6	32.4	27.3
Russian Federation	531	37.3	5.2	36.6	3.3	9.9	7.6	36.6	0.2	0.0	7.4	33.9	39.5
Singapore	624	27.0	4.5	58.8	2.4	5.9	1.3	58.8	0.0	0.0	1.3	60.1	57.8
Slovak Republic	436	35.2	6.2	38.4	3.1	10.7	6.5	38.4	0.0	0.0	6.5	40.1	36.6
Slovenia	387	36.7	8.7	39.1	1.5	8.7	5.2	39.1	0.0	0.0	5.2	40.1	38.2
South Africa	990	36.8	14.3	15.9	5.1	22.1	5.8	15.9	0.5	1.1	4.1	15.5	16.4
Thailand	711	32.8	11.6	31.2	3.8	19.2	1.3	31.2	0.0	0.1	1.2	29.4	33.4
Tunisia	630	32.8	11.2	26.7	11.5	11.5	6.3	26.7	1.2	0.8	4.3	26.3	27.1
Turkey	990	34.1	13.1	24.5	9.9	14.5	4.0	24.5	0.0	0.0	4.0	23.4	25.6
United States	1091	47.2	7.2	26.6	5.5	11.8	1.5	26.6	0.0	0.1	1.5	27.6	25.7
International Avg.	.	37.2	9.2	30.5	5.4	12.4	5.3	30.5	0.2	0.2	4.9	31.3	29.6

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Algebra  
 Label: Subtract fractions involving x ( M022185 - Q02 )  
 Item Type = MC Key = E

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	500	6.7	22.6	16.0	6.7	46.9	1.1	46.9	0.0	0.0	1.1	46.4	47.5
Belgium (Flemish)	658	8.9	12.1	11.0	4.5	62.3	1.2	62.3	0.4	0.0	0.9	65.9	59.1
Bulgaria	407	3.9	7.1	13.4	2.0	69.3	4.3	69.3	0.0	0.0	4.3	71.7	66.8
Canada	1082	9.9	17.9	10.9	12.6	47.7	1.1	47.7	0.0	0.3	0.8	44.9	50.5
Chile	726	12.7	17.3	8.6	15.5	34.2	11.7	34.2	0.0	2.6	9.1	37.2	31.3
Chinese Taipei	717	3.4	12.7	7.4	2.1	74.3	0.0	74.3	0.0	0.0	0.0	74.6	74.0
Cyprus	395	5.0	11.6	14.9	3.8	62.3	2.3	62.3	0.3	0.0	2.1	63.9	60.9
Czech Republic	424	5.5	12.5	20.7	2.1	57.5	1.7	57.5	0.0	0.4	1.3	63.6	51.1
England	362	8.9	18.1	25.3	6.2	36.2	5.4	36.2	0.0	0.0	5.4	33.7	38.8
Finland	370	11.1	15.1	10.6	20.0	39.7	3.5	39.7	0.0	0.0	3.5	46.2	32.9
Hong Kong, SAR	644	1.5	4.7	7.6	0.8	85.1	0.4	85.1	0.2	0.0	0.2	86.1	84.0
Hungary	393	3.4	5.4	12.1	2.0	74.3	2.8	74.3	0.0	0.0	2.8	77.7	71.7
Indonesia	725	12.7	34.4	6.7	8.2	36.8	1.2	36.8	0.0	0.2	1.0	39.0	34.6
Iran, Islamic Rep.	663	16.8	15.6	6.8	5.1	51.1	4.6	51.1	0.0	0.3	4.4	52.6	50.0
Israel	528	3.7	10.4	22.1	5.0	56.5	2.3	56.5	0.2	0.6	1.5	59.5	52.8
Italy	415	6.6	17.7	10.8	7.3	51.0	6.5	51.0	0.0	0.0	6.5	52.5	49.4
Japan	584	6.7	5.2	9.1	0.9	78.0	0.2	78.0	0.0	0.2	0.0	76.0	80.1
Jordan	631	6.9	11.7	8.9	13.1	56.7	2.6	56.7	0.8	0.0	1.8	60.0	53.9
Korea, Rep. of	763	6.0	10.4	6.6	2.8	74.3	0.0	74.3	0.0	0.0	0.0	72.6	76.0
Latvia (LSS)	354	5.8	8.0	6.4	2.9	74.0	2.9	74.0	0.0	0.0	2.9	84.2	64.9
Lithuania	292	5.6	13.4	11.6	1.9	63.9	3.6	63.9	0.0	1.3	2.3	68.4	58.9
Macedonia, Rep. of	506	5.2	11.8	22.6	4.5	43.1	12.8	43.1	0.4	0.6	11.8	48.4	37.3
Malaysia	702	5.7	15.8	9.7	3.8	64.1	0.9	64.1	0.0	0.1	0.8	67.4	60.1
Moldova	477	11.4	11.8	5.9	6.9	60.7	3.3	60.7	0.0	0.0	3.3	62.7	58.7
Morocco	654	4.6	26.8	8.1	15.1	20.4	25.0	20.4	0.7	0.0	24.3	18.1	22.2
Netherlands	365	9.9	23.3	6.7	16.7	41.8	1.7	41.8	0.0	0.0	1.7	40.9	42.8
New Zealand	433	12.1	26.2	14.7	9.7	35.2	2.3	35.2	0.2	0.5	1.6	33.1	37.2
Philippines	849	15.7	24.2	10.4	12.3	36.4	1.0	36.4	0.1	0.1	0.8	36.1	36.8
Romania	431	5.9	12.0	5.5	5.6	67.4	3.5	67.4	0.2	0.0	3.3	69.6	65.1
Russian Federation	531	3.2	7.4	7.5	2.8	75.1	4.0	75.1	0.0	0.0	4.0	80.4	69.2
Singapore	624	3.6	3.9	7.1	0.7	83.5	1.1	83.5	0.0	0.0	1.1	89.2	78.9
Slovak Republic	436	2.9	9.0	17.6	0.8	68.5	1.3	68.5	0.0	0.0	1.3	75.8	61.2
Slovenia	387	9.6	12.6	8.8	1.1	66.1	1.8	66.1	0.2	0.0	1.6	72.5	59.9
South Africa	990	9.6	21.0	10.6	17.3	35.8	5.6	35.8	0.8	1.6	3.2	37.8	33.5
Thailand	711	9.0	43.9	8.3	9.0	28.9	0.8	28.9	0.0	0.1	0.6	30.4	27.3
Tunisia	630	7.2	21.3	5.6	11.8	49.3	4.8	49.3	0.6	0.9	3.3	46.2	52.6
Turkey	990	9.1	19.9	8.0	11.5	49.9	1.5	49.9	0.1	0.0	1.5	57.6	43.2
United States	1091	10.8	19.9	10.0	11.2	46.7	1.4	46.7	0.0	0.1	1.4	49.7	43.8
International Avg.	.	7.6	15.6	10.9	7.0	55.4	3.5	55.4	0.1	0.3	3.1	57.7	53.1

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Measurement  
 Label: Which is least amount of time ( M022188 - Q03 )  
 Item Type = MC Key = B

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	500	4.8	47.0	20.2	27.4	0.6	47.0	0.1	0.0	0.6	41.7	53.3
Belgium (Flemish)	658	4.8	57.4	15.1	22.3	0.4	57.4	0.0	0.0	0.4	57.9	57.0
Bulgaria	407	11.4	52.8	10.4	23.5	2.0	52.8	0.0	0.0	2.0	46.7	59.0
Canada	1082	2.6	50.2	13.9	32.5	0.7	50.2	0.1	0.3	0.3	46.8	53.7
Chile	726	7.9	37.6	12.5	35.5	6.5	37.6	0.0	3.4	3.1	39.6	35.7
Chinese Taipei	717	3.8	63.3	7.0	25.8	0.1	63.3	0.1	0.0	0.0	61.3	65.4
Cyprus	394	8.4	39.0	15.9	34.8	2.0	39.0	0.3	0.0	1.7	32.5	45.0
Czech Republic	424	3.7	48.3	13.3	32.0	2.6	48.3	0.0	0.4	2.3	41.4	55.7
England	362	2.7	31.5	23.8	39.2	2.9	31.5	0.4	0.0	2.5	29.5	33.6
Finland	370	3.2	51.2	15.9	28.5	1.2	51.2	0.0	0.0	1.2	45.7	57.0
Hong Kong, SAR	644	3.7	52.5	10.7	32.2	0.9	52.5	0.3	0.0	0.6	48.9	56.0
Hungary	393	2.4	51.6	18.0	25.6	2.5	51.6	0.3	0.0	2.2	48.5	55.2
Indonesia	725	19.2	27.9	12.0	38.6	2.4	27.9	0.4	0.2	1.8	27.8	27.9
Iran, Islamic Rep.	663	9.0	34.0	11.2	42.5	3.3	34.0	0.0	0.4	2.9	31.0	36.0
Israel	528	9.4	36.9	16.1	35.4	2.2	36.9	0.0	0.9	1.3	35.8	38.3
Italy	415	5.1	45.0	17.2	29.1	3.6	45.0	0.0	0.0	3.6	37.7	53.2
Japan	584	1.1	57.4	12.8	28.1	0.5	57.4	0.0	0.2	0.3	56.1	58.8
Jordan	631	10.0	39.5	15.6	33.5	1.5	39.5	0.6	0.0	0.9	37.7	40.9
Korea, Rep. of	763	2.0	61.7	10.3	25.9	0.1	61.7	0.0	0.0	0.1	56.0	67.3
Latvia (LSS)	354	13.9	40.1	13.1	31.2	1.7	40.1	0.4	0.0	1.3	42.0	38.4
Lithuania	292	15.7	39.4	11.3	28.4	5.2	39.4	0.0	1.6	3.7	35.5	43.8
Macedonia, Rep. of	505	22.0	32.0	11.3	30.9	3.9	32.0	0.0	0.6	3.3	33.5	30.3
Malaysia	702	6.4	48.7	13.3	30.5	1.1	48.7	0.0	0.1	1.0	47.9	49.8
Moldova	477	17.7	35.3	12.9	31.7	2.4	35.3	0.0	0.0	2.4	34.6	36.0
Morocco	654	11.2	34.3	10.4	35.4	8.6	34.3	0.6	0.0	8.0	29.2	38.1
Netherlands	365	2.8	55.8	8.5	32.5	0.4	55.8	0.0	0.0	0.4	51.8	60.1
New Zealand	433	7.8	35.4	18.9	37.0	0.9	35.4	0.4	0.5	0.0	30.6	40.2
Philippines	849	23.2	30.5	11.1	34.2	1.1	30.5	0.1	0.1	0.8	31.3	29.5
Romania	431	9.6	49.1	11.5	28.9	1.0	49.1	0.0	0.0	1.0	45.8	52.6
Russian Federation	531	4.3	43.7	14.0	32.6	5.5	43.7	0.7	0.0	4.8	44.2	43.0
Singapore	624	4.2	58.4	9.1	27.8	0.5	58.4	0.0	0.0	0.5	54.9	61.2
Slovak Republic	436	1.4	55.3	12.4	28.3	2.7	55.3	0.3	0.0	2.4	53.3	57.3
Slovenia	387	2.2	56.5	15.7	23.1	2.6	56.5	0.2	0.0	2.3	58.0	55.1
South Africa	990	29.5	36.0	9.5	21.9	3.2	36.0	0.0	1.7	1.5	35.8	36.2
Thailand	711	5.6	44.0	12.8	37.4	0.1	44.0	0.0	0.1	0.0	40.0	48.9
Tunisia	630	6.9	35.2	15.6	37.8	4.5	35.2	1.1	1.1	2.3	30.5	40.0
Turkey	990	5.3	38.3	11.0	44.6	0.8	38.3	0.0	0.0	0.8	32.3	43.6
United States	1091	4.4	47.5	12.9	34.8	0.4	47.5	0.1	0.1	0.3	48.2	46.8
International Avg.	.	8.1	44.7	13.3	31.6	2.2	44.7	0.2	0.3	1.7	42.1	47.4

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Data Representation, Analysis and Probability  
 Label: How many pencils sold from bar graph ( M022189 - Q04 )  
 Item Type = MC Key = C

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	500	1.0	8.6	77.6	12.8	0.0	77.6	0.0	0.0	0.0	84.0	70.1
Belgium (Flemish)	658	1.4	3.8	93.0	1.6	0.1	93.0	0.0	0.0	0.1	94.1	92.1
Bulgaria	407	9.0	13.9	65.4	7.8	3.9	65.4	0.4	0.0	3.5	66.3	64.4
Canada	1082	0.9	5.8	86.7	6.3	0.3	86.7	0.0	0.3	0.0	87.0	86.3
Chile	726	3.9	11.0	44.1	34.8	6.2	44.1	0.0	3.9	2.4	47.4	41.0
Chinese Taipei	717	1.8	9.5	85.0	3.7	0.0	85.0	0.0	0.0	0.0	84.8	85.2
Cyprus	395	2.7	12.2	76.9	6.8	1.5	76.9	0.3	0.0	1.2	84.1	70.2
Czech Republic	424	3.5	12.0	78.2	5.4	0.9	78.2	0.0	0.4	0.6	72.4	84.4
England	362	2.3	7.8	82.1	7.0	0.9	82.1	0.3	0.4	0.2	82.7	81.4
Finland	370	1.9	8.7	87.8	0.7	0.9	87.8	0.0	0.4	0.4	90.3	85.4
Hong Kong, SAR	644	1.9	5.0	90.1	1.9	1.2	90.1	0.5	0.0	0.7	89.9	90.2
Hungary	393	1.6	7.8	80.8	7.6	2.2	80.8	0.0	0.2	1.9	81.3	80.7
Indonesia	724	4.2	33.3	37.1	22.3	3.1	37.1	0.3	0.2	2.6	34.3	39.9
Iran, Islamic Rep.	663	8.1	17.9	54.1	16.4	3.5	54.1	0.0	0.8	2.8	48.5	57.9
Israel	528	3.7	13.1	62.3	18.3	2.5	62.3	0.0	1.0	1.5	64.9	59.3
Italy	415	3.2	9.8	73.6	11.9	1.6	73.6	0.0	0.5	1.1	72.5	74.8
Japan	584	0.7	4.8	89.6	4.5	0.5	89.6	0.0	0.4	0.2	91.7	87.4
Jordan	631	10.4	19.4	51.4	17.1	1.6	51.4	0.5	0.0	1.1	52.3	50.5
Korea, Rep. of	763	2.5	7.8	88.2	1.1	0.3	88.2	0.1	0.0	0.1	87.2	89.2
Latvia (LSS)	354	1.3	16.0	74.8	5.6	2.3	74.8	0.3	0.0	2.0	77.5	72.4
Lithuania	292	5.7	11.3	70.9	6.8	5.4	70.9	0.0	2.6	2.8	75.4	65.9
Macedonia, Rep. of	506	6.2	16.4	42.8	28.7	6.0	42.8	0.2	0.6	5.2	43.3	42.2
Malaysia	702	1.9	4.8	84.1	8.7	0.5	84.1	0.0	0.1	0.4	87.1	80.5
Moldova	477	8.7	23.4	42.6	20.7	4.5	42.6	0.2	0.0	4.3	44.0	41.4
Morocco	653	7.3	31.5	37.7	20.6	2.9	37.7	0.5	0.0	2.4	42.2	34.3
Netherlands	365	0.5	11.2	79.7	8.6	0.1	79.7	0.0	0.0	0.1	73.2	86.8
New Zealand	433	2.3	9.8	75.2	12.3	0.5	75.2	0.0	0.5	0.0	84.0	66.6
Philippines	849	10.7	26.7	25.5	36.7	0.4	25.5	0.1	0.1	0.2	26.5	24.2
Romania	431	9.5	20.6	54.0	13.2	2.8	54.0	0.2	0.0	2.6	55.6	52.0
Russian Federation	531	2.1	9.3	78.9	5.0	4.6	78.9	0.5	0.0	4.2	80.0	77.6
Singapore	624	1.5	6.1	83.9	8.4	0.0	83.9	0.0	0.0	0.0	84.9	83.2
Slovak Republic	436	4.7	15.7	72.1	6.2	1.4	72.1	0.0	0.0	1.4	74.0	70.2
Slovenia	387	1.1	7.5	87.6	2.3	1.5	87.6	0.2	0.0	1.3	91.8	83.6
South Africa	990	15.3	16.6	30.3	33.9	3.8	30.3	0.4	2.1	1.4	30.1	30.5
Thailand	711	5.1	11.3	74.7	8.6	0.3	74.7	0.0	0.1	0.1	74.9	74.4
Tunisia	630	10.3	34.8	34.8	13.9	6.2	34.8	0.8	1.7	3.7	32.4	37.3
Turkey	990	7.2	16.5	56.6	18.0	1.7	56.6	0.0	0.1	1.6	62.6	51.3
United States	1091	2.2	7.0	83.0	7.5	0.3	83.0	0.0	0.1	0.2	85.8	80.3
International Avg.	.	4.4	13.4	68.2	11.9	2.0	68.2	0.1	0.4	1.4	69.5	67.0

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Fractions and Number Sense  
 Label: Number of men/women at meeting ( M022191 - Q05 )  
 Item Type = MC Key = A

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	500	69.4	8.4	6.0	15.5	0.7	69.4	0.0	0.0	0.7	70.9	67.5
Belgium (Flemish)	658	83.9	0.9	4.8	10.2	0.2	83.9	0.0	0.0	0.1	86.4	81.6
Bulgaria	407	73.1	6.3	6.9	10.1	3.5	73.1	0.0	0.0	3.5	69.0	77.2
Canada	1082	64.3	9.5	10.5	15.1	0.7	64.3	0.0	0.3	0.4	61.6	67.0
Chile	726	49.8	12.7	11.9	16.4	9.2	49.8	0.0	5.1	4.2	53.7	46.0
Chinese Taipei	717	82.2	7.5	3.2	7.0	0.1	82.2	0.0	0.0	0.1	79.8	84.6
Cyprus	396	73.3	8.7	5.9	10.7	1.3	73.3	0.0	0.0	1.3	74.9	71.9
Czech Republic	424	72.7	8.0	9.5	7.3	2.6	72.7	0.0	0.7	1.8	69.7	75.9
England	362	70.4	6.2	6.5	15.6	1.3	70.4	0.0	0.4	0.9	66.5	74.4
Finland	370	80.2	4.0	10.0	4.8	0.9	80.2	0.0	0.4	0.5	82.8	77.6
Hong Kong, SAR	644	74.9	12.8	3.2	8.1	1.0	74.9	0.2	0.0	0.8	77.9	71.9
Hungary	393	73.0	5.2	6.5	12.4	2.9	73.0	0.5	0.4	2.0	70.1	75.4
Indonesia	724	58.6	19.0	9.6	11.2	1.6	58.6	0.0	0.4	1.2	59.5	57.6
Iran, Islamic Rep.	663	56.4	9.4	9.3	20.8	4.1	56.4	0.0	0.9	3.2	49.8	60.9
Israel	528	63.7	12.7	8.1	12.8	2.7	63.7	0.4	1.0	1.3	64.6	62.8
Italy	415	66.7	6.9	12.0	10.3	4.2	66.7	0.0	1.1	3.1	66.9	66.4
Japan	584	88.6	2.5	4.9	3.6	0.4	88.6	0.0	0.4	0.0	86.8	90.4
Jordan	631	56.8	12.0	9.0	20.4	1.8	56.8	0.2	0.2	1.5	56.4	57.2
Korea, Rep. of	763	85.9	1.9	6.3	5.7	0.3	85.9	0.0	0.1	0.1	84.4	87.5
Latvia (LSS)	354	66.4	4.4	10.8	15.8	2.6	66.4	0.0	0.0	2.6	67.9	65.0
Lithuania	292	58.0	3.9	3.6	28.7	5.8	58.0	0.0	2.6	3.3	54.9	61.6
Macedonia, Rep. of	506	49.6	12.5	8.8	20.9	8.2	49.6	0.3	1.5	6.4	50.1	49.0
Malaysia	702	76.5	4.4	7.2	11.1	0.9	76.5	0.0	0.2	0.7	78.3	74.3
Moldova	477	58.9	12.4	8.3	15.4	5.0	58.9	0.0	0.9	4.1	61.2	56.6
Morocco	648	53.5	17.8	7.3	18.6	2.8	53.5	0.9	0.0	1.9	50.3	55.7
Netherlands	365	82.2	4.5	3.4	9.7	0.1	82.2	0.0	0.0	0.1	84.2	80.0
New Zealand	433	60.9	12.3	10.7	15.5	0.7	60.9	0.0	0.5	0.2	61.8	59.9
Philippines	849	21.8	38.8	11.9	26.3	1.2	21.8	0.0	0.1	1.1	22.2	21.3
Romania	430	46.3	14.9	8.2	27.9	2.8	46.3	0.3	0.2	2.2	41.9	50.9
Russian Federation	531	57.2	6.4	8.8	22.5	5.0	57.2	0.0	0.0	5.0	55.8	58.8
Singapore	624	83.8	3.8	2.1	10.0	0.4	83.8	0.0	0.0	0.4	84.1	83.5
Slovak Republic	436	76.5	4.9	7.9	8.1	2.7	76.5	0.0	0.4	2.2	72.4	80.7
Slovenia	387	72.4	6.4	9.9	9.4	1.9	72.4	0.3	0.0	1.6	71.7	73.0
South Africa	990	27.7	32.7	14.2	20.7	4.7	27.7	0.0	2.6	2.0	26.1	29.5
Thailand	711	63.8	8.7	12.6	14.2	0.7	63.8	0.0	0.3	0.5	64.4	63.1
Tunisia	630	37.6	10.8	12.2	32.2	7.3	37.6	0.8	3.0	3.5	34.4	40.9
Turkey	990	60.1	9.2	15.4	13.6	1.6	60.1	0.1	0.1	1.5	59.3	60.8
United States	1091	48.8	12.2	15.5	23.1	0.5	48.8	0.0	0.1	0.3	49.9	47.7
International Avg.	.	64.4	9.9	8.5	14.8	2.5	64.4	0.1	0.6	1.8	63.8	64.9

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent



Mathematics: Fractions and Number Sense  
 Label: Approximate number of magazines sold ( M022194 - Q06 )  
 Item Type = MC Key = D

COUNTRY	N	A	B	C	D	E	OTHER -7.2370		DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
							INCORRECT	0212645 91E75						
Australia	500	0.8	6.5	8.0	66.5	18.3	0.0	0.0	66.5	0.0	0.0	0.0	60.4	73.6
Belgium (Flemish)	658	0.0	4.0	6.6	71.2	17.7	0.5	0.0	71.2	0.0	0.0	0.5	75.3	67.4
Bulgaria	407	2.2	7.8	11.7	56.3	16.8	5.3	0.0	56.3	0.0	0.2	5.1	53.9	58.8
Canada	1082	0.5	5.0	8.5	61.3	22.6	2.1	0.0	61.3	0.0	0.3	1.9	59.3	63.2
Chile	726	2.1	3.9	17.3	32.7	32.2	11.9	0.0	32.7	0.0	6.9	5.0	29.5	35.7
Chinese Taipei	718	0.6	7.8	6.1	70.0	15.2	0.1	0.1	70.0	0.0	0.0	0.1	70.0	70.0
Cyprus	393	2.2	8.7	19.1	46.0	21.1	3.0	0.0	46.0	0.0	0.0	3.0	44.2	47.5
Czech Republic	424	0.8	4.5	8.2	64.9	17.4	4.2	0.0	64.9	0.0	0.7	3.5	60.7	69.4
England	362	0.7	5.7	9.7	56.6	25.7	1.7	0.0	56.6	0.0	1.1	0.6	53.9	59.6
Finland	370	0.0	5.1	5.9	69.0	19.3	0.8	0.0	69.0	0.0	0.4	0.3	71.3	66.7
Hong Kong, SAR	644	1.7	4.4	10.3	65.2	17.4	0.9	0.0	65.2	0.2	0.0	0.8	65.2	65.3
Hungary	393	0.5	3.2	5.7	66.8	20.0	3.8	0.0	66.8	0.0	0.7	3.1	66.2	67.9
Indonesia	725	2.4	6.2	26.7	37.6	22.0	5.0	0.0	37.6	0.1	0.6	4.3	35.5	39.8
Iran, Islamic Rep.	663	4.4	11.5	20.1	31.6	25.1	7.3	0.0	31.6	0.0	1.7	5.6	27.6	34.3
Israel	528	3.0	4.9	15.8	43.6	27.6	5.1	0.0	43.6	0.2	1.5	3.4	42.8	44.8
Italy	415	3.7	5.0	17.5	45.8	22.4	5.7	0.0	45.8	0.0	1.8	3.8	41.0	51.2
Japan	584	0.0	4.2	5.4	69.7	20.2	0.5	0.0	69.7	0.0	0.4	0.2	67.5	71.9
Jordan	631	15.0	14.5	24.5	28.6	15.2	2.2	0.0	28.6	0.2	0.2	1.8	21.8	34.4
Korea, Rep. of	763	0.5	4.9	11.1	72.4	10.8	0.3	0.0	72.4	0.1	0.1	0.0	69.2	75.6
Latvia (LSS)	354	0.9	6.3	14.3	54.5	21.3	2.7	0.0	54.5	0.0	0.0	2.7	51.7	57.0
Lithuania	292	0.0	3.2	14.9	54.2	20.9	6.9	0.0	54.2	0.0	2.9	3.9	51.7	56.9
Macedonia, Rep. of	506	8.6	8.0	13.7	38.3	21.4	10.2	0.0	38.3	0.2	1.8	8.2	38.2	38.4
Malaysia	702	0.7	3.3	17.0	63.1	13.6	2.3	0.0	63.1	0.0	0.4	2.0	62.3	64.1
Moldova	477	6.1	6.8	16.2	36.3	28.1	6.5	0.0	36.3	0.2	1.5	4.7	33.0	39.5
Morocco	647	6.4	11.5	16.5	28.0	29.6	8.0	0.0	28.0	0.7	0.0	7.2	23.3	31.4
Netherlands	365	0.4	8.1	11.1	67.4	12.7	0.4	0.0	67.4	0.0	0.0	0.4	67.1	67.6
New Zealand	433	1.5	7.9	12.6	56.1	21.1	0.8	0.0	56.1	0.2	0.5	0.2	55.5	56.6
Philippines	849	10.5	14.0	23.0	29.0	21.3	2.2	0.0	29.0	0.3	0.2	1.7	26.3	32.1
Romania	431	4.3	5.2	11.6	45.9	29.1	3.9	0.0	45.9	0.0	0.7	3.2	41.7	50.4
Russian Federation	531	2.2	4.2	11.3	56.6	19.2	6.6	0.0	56.6	0.0	0.0	6.6	56.7	56.5
Singapore	624	0.0	3.8	7.7	77.3	10.9	0.3	0.0	77.3	0.0	0.0	0.3	79.4	75.6
Slovak Republic	436	0.5	3.5	9.4	58.6	24.5	3.6	0.0	58.6	0.0	0.7	2.9	55.4	61.7
Slovenia	387	1.5	3.5	7.9	64.0	21.2	1.9	0.0	64.0	0.0	0.0	1.9	60.2	67.6
South Africa	990	10.8	10.0	13.4	21.7	38.6	5.5	0.0	21.7	0.6	3.3	1.7	19.7	23.9
Thailand	711	1.9	4.7	23.0	41.5	27.6	1.3	0.0	41.5	0.0	0.3	1.0	42.3	40.7
Tunisia	630	4.2	6.3	20.3	38.1	22.8	8.4	0.0	38.1	0.5	4.5	3.4	31.9	44.5
Turkey	990	2.8	9.4	15.0	37.8	31.3	3.7	0.0	37.8	0.0	0.3	3.4	36.0	39.4
United States	1091	1.9	6.0	9.0	60.1	22.3	0.6	0.0	60.1	0.0	0.1	0.5	58.0	62.1
International Avg.	.	2.8	6.4	13.3	52.2	21.7	3.6	0.0	52.2	0.1	0.9	2.6	50.1	54.3

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Algebra  
 Label: True expression for values of L,K,M ( M022196 - Q07 )  
 Item Type = MC Key = A

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	500	59.1	25.6	6.1	6.5	2.1	0.5	59.1	0.0	0.0	0.5	58.7	59.5
Belgium (Flemish)	658	79.1	11.8	4.2	4.0	0.4	0.5	79.1	0.0	0.0	0.5	84.9	73.6
Bulgaria	407	73.1	10.8	4.8	3.5	2.0	5.8	73.1	0.0	2.2	3.5	74.9	71.3
Canada	1082	60.1	21.9	7.3	5.6	2.3	2.7	60.1	0.0	1.7	1.0	60.3	60.3
Chile	726	17.1	27.0	15.3	18.7	5.5	16.3	17.1	0.0	8.4	7.8	17.7	16.5
Chinese Taipei	717	75.7	14.2	3.8	4.0	2.1	0.2	75.7	0.0	0.0	0.2	75.6	75.9
Cyprus	394	53.3	23.6	7.6	9.7	4.4	1.4	53.3	0.0	0.0	1.4	54.3	52.4
Czech Republic	424	71.2	8.9	4.9	8.7	1.9	4.5	71.2	0.0	1.2	3.3	76.0	66.1
England	362	46.6	27.9	6.9	11.4	3.3	3.8	46.6	0.6	1.1	2.2	39.2	54.4
Finland	370	57.9	28.3	5.5	5.1	1.2	2.0	57.9	0.0	0.4	1.5	58.9	56.8
Hong Kong, SAR	644	83.2	7.2	5.4	2.3	1.3	0.6	83.2	0.2	0.0	0.4	83.3	83.1
Hungary	393	81.6	5.5	3.0	6.4	0.4	3.1	81.6	0.3	1.1	1.7	83.5	80.6
Indonesia	725	48.0	26.7	10.8	9.8	2.3	2.3	48.0	0.0	0.9	1.4	46.0	50.0
Iran, Islamic Rep.	664	48.3	14.5	13.3	10.2	7.7	6.1	48.3	0.0	1.9	4.1	47.5	48.8
Israel	528	57.1	13.6	12.1	8.5	3.9	4.7	57.1	0.6	1.9	2.2	59.3	54.4
Italy	415	53.4	17.8	9.5	9.0	2.8	7.4	53.4	0.0	2.6	4.8	55.3	51.3
Japan	584	77.7	13.1	4.6	3.1	0.9	0.5	77.7	0.0	0.4	0.1	75.5	80.0
Jordan	630	39.4	21.8	15.3	15.2	6.5	1.8	39.4	0.5	0.2	1.1	39.4	39.4
Korea, Rep. of	763	81.9	11.6	3.3	2.3	0.9	0.1	81.9	0.0	0.1	0.0	79.1	84.6
Latvia (LSS)	354	67.3	17.3	5.1	5.2	1.0	4.0	67.3	0.0	0.2	3.8	72.6	62.6
Lithuania	292	62.6	15.7	7.3	5.9	0.7	7.7	62.6	0.0	2.9	4.8	66.9	57.8
Macedonia, Rep. of	506	53.3	12.2	8.5	12.2	3.0	10.9	53.3	0.3	1.9	8.7	57.7	48.6
Malaysia	702	53.0	26.5	7.3	8.4	2.4	2.4	53.0	0.0	0.4	2.1	55.7	49.7
Moldova	477	53.5	12.9	11.0	11.5	4.4	6.8	53.5	0.0	1.5	5.2	54.6	52.4
Morocco	647	37.2	9.6	17.5	18.1	8.9	8.5	37.2	1.2	0.0	7.4	38.5	36.4
Netherlands	365	56.5	20.5	11.3	8.9	1.9	1.0	56.5	0.0	0.0	1.0	58.0	54.8
New Zealand	433	40.8	33.0	9.0	8.8	6.2	2.1	40.8	0.2	0.5	1.4	38.8	42.9
Philippines	849	16.2	49.5	13.8	16.3	3.1	1.0	16.2	0.1	0.3	0.6	17.5	14.7
Romania	431	61.0	12.8	6.7	10.1	5.4	4.1	61.0	0.4	0.7	3.0	61.5	60.2
Russian Federation	531	77.1	9.3	4.3	3.5	0.6	5.2	77.1	0.0	0.0	5.2	80.4	73.3
Singapore	624	89.0	6.2	1.5	2.4	0.5	0.5	89.0	0.0	0.0	0.5	89.9	88.3
Slovak Republic	436	77.0	8.6	2.5	5.6	1.3	5.0	77.0	0.4	0.7	3.8	80.2	73.7
Slovenia	387	75.0	13.0	4.8	4.5	1.5	1.3	75.0	0.0	0.0	1.3	77.0	73.1
South Africa	990	15.2	26.7	21.4	24.7	5.6	6.4	15.2	0.2	3.5	2.6	14.0	16.5
Thailand	711	42.3	35.6	6.6	11.9	2.7	0.9	42.3	0.0	0.4	0.4	42.2	42.5
Tunisia	630	61.5	6.8	9.7	7.2	3.4	11.3	61.5	2.3	4.9	4.1	59.8	63.3
Turkey	990	47.2	25.2	8.4	9.0	6.1	4.1	47.2	0.0	0.3	3.8	52.7	42.3
United States	1091	55.7	28.0	8.5	5.2	2.3	0.3	55.7	0.0	0.1	0.2	56.6	54.9
International Avg.	.	58.0	18.5	8.1	8.5	3.0	3.9	58.0	0.2	1.1	2.6	59.1	57.0

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Fractions and Number Sense  
 Label: Decimals ordered greatest to least ( M022198 - Q08 )  
 Item Type = MC Key = D

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	500	12.0	25.3	8.1	52.8	1.9	52.8	0.3	0.0	1.6	52.4	53.3
Belgium (Flemish)	658	11.7	18.6	3.0	65.7	1.0	65.7	0.2	0.2	0.6	65.2	66.2
Bulgaria	407	6.8	28.4	10.8	45.3	8.7	45.3	0.0	2.6	6.1	43.5	47.2
Canada	1082	11.3	26.2	4.7	54.4	3.4	54.4	0.0	1.7	1.6	52.5	56.7
Chile	726	7.2	31.3	13.6	28.7	19.2	28.7	0.0	10.0	9.2	25.8	31.5
Chinese Taipei	717	5.0	26.0	4.7	63.9	0.4	63.9	0.0	0.0	0.4	55.6	72.2
Cyprus	394	6.9	49.6	12.7	29.0	1.9	29.0	0.3	0.0	1.6	24.7	32.9
Czech Republic	424	13.9	26.4	6.5	47.3	5.9	47.3	0.2	1.2	4.5	44.0	50.9
England	362	9.2	34.0	12.6	42.6	1.6	42.6	0.0	1.1	0.5	37.8	47.6
Finland	370	11.2	25.9	4.4	54.8	3.7	54.8	0.0	0.4	3.2	49.1	60.7
Hong Kong, SAR	644	5.8	21.2	2.3	70.3	0.4	70.3	0.2	0.0	0.2	69.9	70.7
Hungary	393	12.4	34.8	5.4	44.3	3.1	44.3	0.0	1.3	1.8	36.8	51.5
Indonesia	725	8.2	47.1	19.0	22.7	2.9	22.7	0.1	0.9	1.9	23.5	22.0
Iran, Islamic Rep.	664	7.9	47.7	17.5	18.2	8.7	18.2	0.0	2.4	6.3	18.3	18.2
Israel	528	17.3	36.9	11.9	25.0	8.9	25.0	0.7	2.1	6.1	22.3	28.4
Italy	415	14.0	33.0	7.7	37.1	8.2	37.1	0.0	3.5	4.7	35.9	38.4
Japan	584	15.0	24.1	2.9	57.1	0.9	57.1	0.0	0.4	0.5	48.7	65.5
Jordan	630	14.0	37.3	13.9	32.3	2.5	32.3	0.3	0.2	2.1	40.0	25.6
Korea, Rep. of	763	19.2	22.2	4.4	54.1	0.1	54.1	0.0	0.1	0.0	50.2	58.0
Latvia (LSS)	354	9.0	25.8	8.3	51.8	5.1	51.8	0.5	0.2	4.4	45.2	57.6
Lithuania	292	12.3	29.6	8.5	43.9	5.7	43.9	0.0	3.5	2.2	44.4	43.5
Macedonia, Rep. of	506	7.3	40.1	9.8	30.8	11.9	30.8	0.2	2.1	9.7	30.5	31.2
Malaysia	702	8.7	25.0	7.3	56.6	2.4	56.6	0.1	0.6	1.6	59.1	53.7
Moldova	477	8.6	29.7	11.5	43.2	7.0	43.2	0.5	1.5	5.0	42.3	44.0
Morocco	647	12.5	25.7	9.0	41.2	11.6	41.2	5.2	0.0	6.5	42.1	40.7
Netherlands	365	17.4	19.1	6.6	56.7	0.2	56.7	0.0	0.0	0.2	53.7	60.1
New Zealand	433	10.8	37.0	12.0	37.9	2.3	37.9	0.0	0.5	1.8	35.8	40.0
Philippines	849	10.0	41.3	21.7	24.8	2.2	24.8	0.7	0.4	1.1	24.1	25.6
Romania	431	11.0	26.9	10.4	46.4	5.4	46.4	0.2	0.7	4.5	43.8	48.3
Russian Federation	531	6.2	29.9	8.1	49.8	6.0	49.8	0.0	0.0	6.0	48.4	51.3
Singapore	624	5.7	12.7	1.7	79.5	0.5	79.5	0.0	0.0	0.5	79.1	79.8
Slovak Republic	436	16.2	30.9	6.0	41.9	4.9	41.9	0.0	1.0	3.9	36.1	47.7
Slovenia	387	16.9	30.0	5.9	44.1	3.1	44.1	0.0	0.0	3.1	40.2	47.9
South Africa	990	12.6	41.7	23.3	15.0	7.3	15.0	0.3	5.0	2.0	14.9	15.2
Thailand	711	7.8	35.4	9.2	46.3	1.4	46.3	0.0	0.6	0.8	44.8	48.1
Tunisia	629	11.0	23.7	17.1	33.0	15.2	33.0	1.3	5.8	8.2	33.2	32.8
Turkey	990	6.3	48.9	14.3	26.2	4.3	26.2	0.0	0.4	3.9	26.2	26.2
United States	1091	13.1	28.4	9.5	47.7	1.3	47.7	0.0	0.2	1.2	46.1	49.1
International Avg.	.	10.9	31.0	9.6	43.8	4.8	43.8	0.3	1.3	3.1	41.7	45.8

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Fractions and Number Sense  
 Label: Addition/multiplication with fractions ( M022199 - Q09 )  
 Item Type = MC Key = E

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	500	8.4	14.6	20.5	18.2	32.7	5.6	32.7	0.0	0.0	5.6	33.4	31.8
Belgium (Flemish)	658	2.3	7.7	13.0	14.6	58.6	3.8	58.6	0.8	0.2	2.9	61.1	56.3
Bulgaria	407	6.8	4.4	12.8	6.9	51.7	17.5	51.7	0.9	3.0	13.6	55.3	48.1
Canada	1082	7.9	13.0	19.0	16.8	36.3	7.0	36.3	0.3	1.7	5.0	41.3	31.0
Chile	726	8.1	5.8	16.6	17.3	25.2	27.0	25.2	0.0	12.5	14.5	23.7	26.6
Chinese Taipei	717	2.2	3.1	9.6	4.9	79.9	0.4	79.9	0.0	0.0	0.4	82.2	77.5
Cyprus	383	5.5	11.0	18.6	18.9	33.4	12.6	33.4	1.2	0.2	11.2	31.1	35.5
Czech Republic	424	2.8	6.8	14.9	10.9	50.1	14.6	50.1	0.4	1.2	13.0	58.9	40.7
England	362	11.5	10.3	23.0	25.1	22.9	7.3	22.9	0.0	1.1	6.2	20.7	25.2
Finland	370	7.9	14.3	17.5	21.6	29.2	9.6	29.2	0.0	0.9	8.7	29.2	29.1
Hong Kong, SAR	644	1.1	3.6	8.4	7.4	77.9	1.7	77.9	0.2	0.0	1.5	80.6	75.2
Hungary	393	2.2	6.8	12.6	11.7	55.5	11.3	55.5	0.0	1.3	9.9	55.0	56.0
Indonesia	725	9.5	14.2	22.9	16.2	29.9	7.4	29.9	0.1	0.9	6.3	26.8	33.0
Iran, Islamic Rep.	664	7.2	7.9	22.8	15.3	34.5	12.3	34.5	0.1	2.6	9.6	34.2	34.6
Israel	528	9.1	14.1	19.4	14.8	25.0	17.7	25.0	0.0	2.3	15.4	22.7	27.9
Italy	415	6.0	5.1	16.6	8.6	50.8	12.9	50.8	0.0	3.5	9.4	58.3	42.4
Japan	584	2.4	3.6	9.7	8.2	74.3	1.9	74.3	0.0	0.4	1.5	75.3	73.2
Jordan	631	14.1	7.2	20.6	16.7	34.6	7.0	34.6	0.7	0.2	6.1	41.1	28.9
Korea, Rep. of	763	0.8	4.0	10.2	7.4	77.2	0.4	77.2	0.0	0.1	0.2	77.4	76.9
Latvia (LSS)	354	2.5	8.8	18.6	11.5	41.7	17.0	41.7	0.0	0.6	16.4	48.0	36.2
Lithuania	292	5.4	5.4	15.5	8.8	45.4	19.6	45.4	0.0	3.5	16.1	53.0	36.9
Macedonia, Rep. of	506	6.7	8.1	16.3	9.6	26.1	33.2	26.1	0.0	2.1	31.1	25.1	27.2
Malaysia	702	4.2	8.4	20.2	12.8	47.5	6.9	47.5	0.0	1.0	5.9	52.6	41.3
Moldova	477	9.7	6.8	18.3	10.2	42.9	12.1	42.9	0.0	1.5	10.6	43.2	42.5
Morocco	655	16.7	7.0	14.8	16.0	20.6	24.9	20.6	1.6	0.0	23.3	16.9	23.3
Netherlands	365	10.5	16.6	14.6	23.6	32.3	2.3	32.3	0.0	0.0	2.3	33.0	31.7
New Zealand	433	10.9	11.5	22.2	23.0	28.6	3.9	28.6	0.8	0.5	2.6	30.9	26.3
Philippines	849	11.8	14.0	25.5	24.0	20.8	3.8	20.8	1.2	0.4	2.2	21.1	20.5
Romania	429	4.8	5.9	15.1	8.8	53.2	12.3	53.2	0.5	0.9	10.9	59.6	46.6
Russian Federation	.	.	.	.	.	.	.	.	.	.	.	.	.
Singapore	624	2.2	3.4	6.3	6.2	79.8	2.1	79.8	0.0	0.0	2.1	84.3	76.2
Slovak Republic	436	3.8	6.7	12.8	9.4	52.1	15.3	52.1	0.0	1.4	13.9	63.0	41.2
Slovenia	387	5.0	4.3	11.7	7.9	57.3	13.7	57.3	0.0	0.0	13.7	61.5	53.3
South Africa	990	15.6	11.1	19.8	16.9	26.0	10.6	26.0	0.6	5.6	4.3	26.9	25.1
Thailand	711	7.2	13.5	21.1	16.1	39.1	3.0	39.1	0.0	1.0	2.1	41.6	36.1
Tunisia	630	6.5	6.6	23.5	12.7	30.1	20.5	30.1	1.1	6.5	12.9	29.3	30.9
Turkey	990	8.3	5.8	20.8	18.8	36.3	10.1	36.3	0.1	0.4	9.5	38.2	34.6
United States	1091	8.8	12.0	22.8	14.8	39.0	2.6	39.0	0.0	0.2	2.5	40.7	37.3
International Avg.	.	6.9	8.5	17.0	13.9	43.2	10.6	43.2	0.3	1.6	8.7	45.3	41.0

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Geometry  
 Label: Measure of angle in adjacent angles ( M022202 - Q10 )  
 Item Type = SA Key = X

COUNTRY	N	10	70	71	79	99	V1	NOT REACH		1.GIRL % Right	2.BOY % Right
								ED	OMIT		
Australia	500	28.5	12.6	5.5	43.0	10.4	28.5	0.0	10.4	28.4	28.6
Belgium (Flemish)	658	39.3	11.9	5.5	36.7	6.6	39.3	0.4	6.2	36.4	42.0
Bulgaria	406	42.9	8.7	3.5	22.7	22.3	42.9	3.3	18.9	40.9	44.8
Canada	1082	26.5	11.0	8.0	46.8	7.7	26.5	2.4	5.4	24.6	28.7
Chile	726	7.4	3.4	4.5	45.2	39.5	7.4	15.7	23.8	7.3	7.4
Chinese Taipei	717	53.9	8.9	3.1	32.4	1.6	53.9	0.0	1.6	51.4	56.5
Cyprus	396	24.8	11.3	6.8	43.8	13.3	24.8	0.5	12.9	26.4	23.4
Czech Republic	424	31.0	7.4	5.7	37.1	18.8	31.0	1.2	17.6	35.7	26.0
England	362	20.1	8.6	7.2	55.8	8.4	20.1	1.1	7.3	16.8	23.5
Finland	370	28.3	10.0	10.4	43.1	8.1	28.3	1.3	6.9	31.4	25.1
Hong Kong, SAR	644	60.0	10.9	2.3	23.8	3.0	60.0	0.0	3.0	61.8	58.3
Hungary	393	38.6	7.9	5.2	37.0	11.3	38.6	1.5	9.7	35.3	41.7
Indonesia	725	20.8	10.8	6.5	53.1	8.8	20.8	1.8	6.9	20.7	21.0
Iran, Islamic Rep.	664	15.3	7.4	8.6	51.4	17.3	15.3	2.9	14.3	16.7	14.3
Israel	528	22.1	7.6	5.2	42.5	22.5	22.1	3.4	19.2	21.0	23.6
Italy	415	28.2	8.2	3.9	35.4	24.3	28.2	4.5	19.9	26.1	30.6
Japan	584	62.9	12.6	2.9	18.8	2.7	62.9	0.5	2.2	60.2	65.7
Jordan	631	18.6	7.0	3.1	61.1	10.1	18.6	0.6	9.6	16.6	20.4
Korea, Rep. of	763	61.9	12.2	3.3	21.1	1.5	61.9	0.1	1.3	59.9	63.9
Latvia (LSS)	354	35.1	9.7	6.9	37.1	11.1	35.1	1.0	10.1	33.0	37.0
Lithuania	292	24.8	9.7	4.6	36.8	24.2	24.8	3.8	20.3	23.6	26.1
Macedonia, Rep. of	506	28.5	5.2	4.2	33.8	28.2	28.5	2.8	25.4	23.8	33.6
Malaysia	702	33.3	11.7	6.0	40.5	8.4	33.3	1.2	7.3	31.6	35.3
Moldova	477	58.5	7.5	2.2	18.7	13.1	58.5	1.6	11.5	56.6	60.4
Morocco	655	15.7	8.1	6.0	55.0	15.2	15.7	0.0	15.2	14.0	17.0
Netherlands	365	22.6	12.5	8.7	54.1	2.1	22.6	0.0	2.1	19.0	26.5
New Zealand	433	22.3	7.9	4.8	59.3	5.7	22.3	0.9	4.8	21.4	23.2
Philippines	849	7.3	4.9	2.2	72.4	13.2	7.3	0.6	12.5	6.6	8.1
Romania	431	36.1	6.5	4.6	34.7	18.0	36.1	2.3	15.8	35.7	36.9
Russian Federation	531	35.3	11.6	3.4	26.5	23.3	35.3	3.4	19.8	37.4	32.9
Singapore	624	62.4	9.3	0.7	26.9	0.7	62.4	0.0	0.7	57.7	66.1
Slovak Republic	436	39.0	7.2	4.7	30.2	19.0	39.0	1.4	17.6	36.1	42.0
Slovenia	387	31.7	12.5	4.4	39.9	11.5	31.7	0.0	11.5	33.8	29.6
South Africa	990	5.1	2.5	0.5	75.1	16.9	5.1	7.0	9.9	3.6	6.7
Thailand	711	24.0	10.1	9.8	52.1	4.0	24.0	1.1	2.9	24.2	23.7
Tunisia	629	23.3	11.1	11.7	27.7	26.2	23.3	8.1	18.1	20.8	25.8
Turkey	990	12.4	4.4	2.1	51.2	29.8	12.4	1.3	28.5	12.1	12.7
United States	1091	18.8	8.4	4.6	62.2	5.9	18.8	0.5	5.4	17.5	20.1
International Avg.	.	30.7	8.9	5.1	41.7	13.5	30.7	2.1	11.5	29.6	31.8

V1 = % Scoring 1 or better V2 = % Scoring 2 or better V3 = % Scoring 3 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Fractions and Number Sense  
 Label: Subtraction of decimals to 0.001 ( M022204 - R07 )  
 Item Type = MC Key = A

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	500	74.4	8.7	9.1	6.9	0.8	74.4	0.0	0.0	0.8	84.1	62.9
Belgium (Flemish)	657	73.0	11.0	12.3	3.3	0.5	73.0	0.4	0.0	0.1	74.7	71.4
Bulgaria	406	81.4	7.3	6.6	2.6	2.1	81.4	0.2	0.5	1.4	84.8	77.9
Canada	1084	79.5	7.8	7.7	4.3	0.6	79.5	0.1	0.0	0.6	83.2	75.5
Chile	735	74.5	8.3	9.3	7.0	0.9	74.5	0.0	0.0	0.9	77.1	72.0
Chinese Taipei	717	84.0	6.0	6.7	3.0	0.2	84.0	0.0	0.0	0.2	83.7	84.4
Cyprus	391	71.5	9.9	12.1	5.3	1.2	71.5	0.0	0.0	1.2	79.2	64.2
Czech Republic	424	85.3	5.8	3.5	4.3	1.1	85.3	0.0	0.0	1.1	91.1	79.1
England	362	59.0	14.1	14.0	8.8	4.0	59.0	0.0	1.9	2.1	64.9	53.0
Finland	370	72.1	11.7	10.3	5.3	0.6	72.1	0.0	0.0	0.6	79.4	64.7
Hong Kong, SAR	643	83.4	5.9	7.9	2.2	0.7	83.4	0.0	0.0	0.7	86.1	80.8
Hungary	394	89.9	2.8	4.6	2.3	0.5	89.9	0.0	0.0	0.5	94.4	85.9
Indonesia	725	78.0	10.2	8.1	3.2	0.4	78.0	0.0	0.0	0.4	81.6	74.5
Iran, Islamic Rep.	663	71.0	11.3	12.1	4.4	1.2	71.0	0.0	0.0	1.2	80.9	64.2
Israel	526	63.0	14.0	11.7	8.8	2.5	63.0	0.0	0.0	2.5	62.9	63.0
Italy	415	76.8	7.0	10.9	4.7	0.6	76.8	0.0	0.2	0.5	78.1	75.3
Japan	585	86.4	4.2	6.7	2.7	0.0	86.4	0.0	0.0	0.0	87.3	85.4
Jordan	630	65.4	14.1	11.1	7.0	2.5	65.4	0.5	0.0	2.0	71.6	60.0
Korea, Rep. of	763	88.0	5.3	5.0	1.7	0.0	88.0	0.0	0.0	0.0	89.8	86.2
Latvia (LSS)	355	79.2	7.6	7.9	3.6	1.8	79.2	0.0	0.7	1.1	84.7	74.2
Lithuania	292	86.3	3.2	4.8	4.8	1.0	86.3	0.0	0.0	1.0	91.3	80.6
Macedonia, Rep. of	506	71.4	9.6	9.1	3.2	6.7	71.4	0.2	0.0	6.5	73.5	69.1
Malaysia	702	92.3	3.8	2.8	1.0	0.0	92.3	0.0	0.0	0.0	93.7	90.7
Moldova	477	80.0	9.8	5.2	3.7	1.3	80.0	0.2	0.0	1.1	84.5	75.7
Morocco	649	61.9	8.3	13.7	5.9	10.2	61.9	0.9	1.8	7.5	62.2	61.6
Netherlands	365	69.5	12.6	12.4	5.5	0.1	69.5	0.0	0.0	0.1	70.9	67.9
New Zealand	435	60.6	15.6	11.9	9.7	2.2	60.6	0.2	0.0	1.9	67.9	53.5
Philippines	848	69.3	12.8	10.1	6.9	0.9	69.3	0.4	0.1	0.5	70.9	67.3
Romania	431	77.1	7.7	9.5	4.6	1.1	77.1	0.0	0.2	0.9	81.3	72.8
Russian Federation	531	87.8	3.1	4.7	4.0	0.5	87.8	0.0	0.1	0.3	90.3	85.0
Singapore	624	90.3	4.9	3.6	1.3	0.0	90.3	0.0	0.0	0.0	93.8	87.5
Slovak Republic	436	86.8	5.1	4.2	3.5	0.3	86.8	0.0	0.0	0.3	92.5	81.2
Slovenia	389	89.6	2.1	4.9	2.4	1.1	89.6	0.0	0.0	1.1	97.2	82.4
South Africa	993	41.7	22.0	19.2	14.1	3.0	41.7	1.0	0.2	1.8	41.4	42.1
Thailand	711	82.9	7.7	6.9	2.2	0.3	82.9	0.0	0.0	0.3	84.9	80.5
Tunisia	629	81.6	6.0	8.0	3.7	0.7	81.6	0.0	0.0	0.7	83.7	79.5
Turkey	990	70.8	10.5	11.8	5.7	1.2	70.8	0.0	0.0	1.2	72.7	69.1
United States	1080	77.0	9.0	8.3	4.7	1.0	77.0	0.0	0.0	1.0	83.1	71.1
International Avg.	.	76.6	8.6	8.6	4.7	1.4	76.6	0.1	0.2	1.2	80.4	73.0

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Fractions and Number Sense  
 Label: Average weight of salt crystals ( M022206 - R08 )  
 Item Type = MC Key = B

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	500	18.4	46.6	18.5	13.5	3.0	46.6	0.0	0.0	3.0	51.8	40.5
Belgium (Flemish)	657	11.2	62.8	12.9	12.0	1.1	62.8	0.1	0.0	1.0	65.7	60.1
Bulgaria	406	8.7	55.0	18.1	9.5	8.7	55.0	0.3	0.8	7.7	54.7	55.3
Canada	1084	17.6	48.7	15.0	17.3	1.5	48.7	0.0	0.0	1.5	50.4	46.6
Chile	735	11.4	49.1	19.9	14.4	5.1	49.1	0.0	0.0	5.1	48.3	49.9
Chinese Taipei	717	4.6	74.6	9.0	11.2	0.6	74.6	0.0	0.0	0.6	73.4	75.8
Cyprus	386	14.7	31.5	32.3	18.1	3.5	31.5	0.2	0.0	3.2	32.5	30.5
Czech Republic	424	10.9	49.7	16.3	17.5	5.6	49.7	0.0	0.0	5.6	48.2	51.2
England	362	14.6	40.3	22.2	18.2	4.8	40.3	0.0	1.9	2.9	40.9	39.5
Finland	370	16.4	53.6	14.4	14.0	1.5	53.6	0.0	0.0	1.5	52.2	55.0
Hong Kong, SAR	643	6.9	75.1	7.0	9.7	1.3	75.1	0.0	0.2	1.1	74.4	75.8
Hungary	394	6.7	67.1	11.0	11.1	4.1	67.1	0.3	0.0	3.9	64.6	69.2
Indonesia	725	12.4	46.4	22.8	15.6	2.7	46.4	0.1	0.0	2.6	45.9	46.9
Iran, Islamic Rep.	663	10.2	35.6	37.5	11.8	4.9	35.6	0.0	0.0	4.9	36.5	34.9
Israel	526	16.9	40.0	21.0	13.9	8.3	40.0	0.0	0.0	8.3	37.3	43.1
Italy	415	13.6	44.6	16.8	16.7	8.3	44.6	0.0	0.2	8.2	43.0	46.4
Japan	585	5.5	73.0	8.6	11.6	1.3	73.0	0.2	0.0	1.2	69.7	76.2
Jordan	630	10.5	41.0	24.8	19.4	4.3	41.0	0.2	0.0	4.2	41.5	40.6
Korea, Rep. of	763	7.7	71.6	9.9	10.7	0.2	71.6	0.0	0.0	0.2	69.4	73.7
Latvia (LSS)	355	11.6	47.4	20.9	12.7	7.4	47.4	0.0	0.7	6.7	48.7	46.3
Lithuania	292	10.3	57.3	14.3	9.8	8.3	57.3	0.0	0.0	8.3	51.6	63.6
Macedonia, Rep. of	506	13.5	47.0	17.1	13.9	8.5	47.0	0.0	0.2	8.3	46.2	47.8
Malaysia	702	6.7	63.8	13.4	11.8	4.3	63.8	0.0	0.0	4.3	66.9	60.0
Moldova	477	19.0	53.6	13.8	8.5	5.0	53.6	0.0	0.0	5.0	55.9	51.4
Morocco	649	11.8	35.3	26.3	12.0	14.6	35.3	0.8	2.4	11.4	30.9	38.7
Netherlands	365	13.8	56.6	20.7	8.9	0.0	56.6	0.0	0.0	0.0	59.3	53.7
New Zealand	435	14.2	43.3	25.3	15.9	1.3	43.3	0.2	0.0	1.1	46.6	40.0
Philippines	848	13.5	29.1	43.9	12.3	1.1	29.1	0.4	0.1	0.7	28.7	29.5
Romania	431	14.6	51.8	18.1	9.9	5.5	51.8	0.4	0.2	4.8	56.1	47.3
Russian Federation	531	9.6	64.7	10.5	10.0	5.1	64.7	0.7	0.1	4.2	65.1	64.3
Singapore	624	6.6	73.6	8.1	9.4	2.3	73.6	0.0	0.0	2.3	68.3	77.8
Slovak Republic	436	9.0	66.1	9.3	12.0	3.6	66.1	0.0	0.0	3.6	68.3	63.8
Slovenia	389	17.9	56.7	9.7	11.4	4.3	56.7	0.4	0.0	3.8	57.4	56.1
South Africa	993	12.1	35.1	31.1	19.7	2.0	35.1	0.2	0.2	1.6	36.8	33.3
Thailand	711	13.1	43.7	17.2	22.9	3.0	43.7	0.0	0.0	3.0	40.4	47.7
Tunisia	629	13.0	47.9	17.7	17.2	4.2	47.9	0.8	0.0	3.4	50.7	44.9
Turkey	990	9.2	47.7	24.8	15.0	3.3	47.7	0.0	0.0	3.3	50.2	45.4
United States	1080	15.8	43.6	19.4	18.4	2.7	43.6	0.0	0.0	2.7	45.4	41.8
International Avg.	.	12.0	51.9	18.4	13.6	4.1	51.9	0.1	0.2	3.8	51.9	51.7

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Data Representation, Analysis and Probability  
 Label: Time for pendulum to swing 20 times ( M022208 - R09 )  
 Item Type = MC Key = B

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	500	9.7	67.0	11.1	11.7	0.5	67.0	0.0	0.0	0.5	69.2	64.4
Belgium (Flemish)	657	8.8	68.0	11.5	11.1	0.5	68.0	0.1	0.0	0.4	67.0	68.9
Bulgaria	406	14.5	51.1	9.4	16.7	8.3	51.1	0.0	0.9	7.4	50.5	51.7
Canada	1084	10.6	66.5	12.3	10.5	0.2	66.5	0.1	0.0	0.1	67.7	65.5
Chile	735	14.5	36.2	24.0	22.8	2.5	36.2	0.2	0.0	2.4	35.6	36.7
Chinese Taipei	717	9.7	69.5	9.8	10.6	0.5	69.5	0.0	0.0	0.5	66.2	72.8
Cyprus	392	12.3	45.9	20.4	19.8	1.6	45.9	0.0	0.0	1.6	46.1	45.6
Czech Republic	424	9.7	52.9	11.6	22.4	3.4	52.9	0.0	0.0	3.4	48.8	57.3
England	362	8.6	68.1	8.4	12.6	2.3	68.1	0.0	1.9	0.4	61.3	75.2
Finland	370	11.9	67.4	11.6	9.0	0.2	67.4	0.0	0.0	0.2	66.8	68.0
Hong Kong, SAR	643	9.7	71.0	10.2	8.3	0.8	71.0	0.0	0.2	0.6	70.0	72.0
Hungary	394	10.9	61.9	13.2	13.0	1.0	61.9	0.0	0.0	1.0	60.8	63.5
Indonesia	725	19.8	40.1	13.2	25.5	1.3	40.1	0.0	0.0	1.3	34.1	46.1
Iran, Islamic Rep.	662	14.1	30.7	20.9	31.0	3.3	30.7	0.0	0.0	3.3	28.5	32.2
Israel	526	14.6	54.5	15.2	13.0	2.7	54.5	0.0	0.0	2.7	53.5	55.9
Italy	415	14.3	48.3	16.5	19.0	1.8	48.3	0.0	0.2	1.7	44.3	52.8
Japan	585	9.4	77.5	6.7	6.1	0.3	77.5	0.2	0.0	0.1	77.4	77.6
Jordan	629	18.3	40.1	17.8	21.3	2.6	40.1	0.3	0.0	2.3	39.8	40.3
Korea, Rep. of	763	6.8	77.9	8.0	7.0	0.3	77.9	0.0	0.0	0.3	72.9	82.8
Latvia (LSS)	355	16.0	55.4	10.9	14.1	3.6	55.4	0.0	0.7	3.0	60.0	51.4
Lithuania	292	15.9	57.3	10.3	15.0	1.5	57.3	0.0	0.0	1.5	60.3	54.0
Macedonia, Rep. of	506	12.7	35.2	20.8	25.8	5.5	35.2	0.8	0.2	4.6	36.0	34.4
Malaysia	702	9.2	61.9	12.6	15.6	0.7	61.9	0.0	0.0	0.7	59.4	65.0
Moldova	477	16.4	35.7	15.4	29.0	3.4	35.7	0.0	0.0	3.4	38.2	33.3
Morocco	650	13.5	34.5	17.7	23.3	11.1	34.5	0.6	4.2	6.3	31.5	36.9
Netherlands	365	10.4	69.9	8.5	9.9	1.3	69.9	0.0	0.0	1.3	72.5	67.0
New Zealand	435	9.4	58.0	16.6	15.4	0.6	58.0	0.0	0.0	0.6	56.3	59.8
Philippines	848	22.0	36.6	16.5	24.2	0.7	36.6	0.0	0.1	0.6	37.3	35.8
Romania	430	18.4	41.1	14.3	23.0	3.2	41.1	0.0	0.4	2.7	35.6	46.8
Russian Federation	531	14.8	58.4	7.8	14.9	4.1	58.4	0.0	0.1	4.0	59.0	57.7
Singapore	624	7.7	70.8	11.4	9.6	0.5	70.8	0.0	0.0	0.5	65.5	75.0
Slovak Republic	436	15.2	59.3	11.4	11.3	2.8	59.3	0.0	0.0	2.8	56.6	62.0
Slovenia	389	11.9	63.1	12.0	11.2	1.8	63.1	0.0	0.0	1.8	58.3	67.7
South Africa	993	17.4	17.8	22.4	41.6	0.9	17.8	0.1	0.2	0.5	18.1	17.3
Thailand	711	14.1	64.9	9.2	11.0	0.8	64.9	0.1	0.0	0.6	62.3	68.1
Tunisia	629	12.6	43.4	18.2	23.2	2.6	43.4	1.1	0.0	1.5	40.8	46.1
Turkey	990	17.7	31.6	19.1	30.3	1.3	31.6	0.0	0.0	1.3	30.2	32.7
United States	1080	13.8	59.2	13.8	12.7	0.5	59.2	0.1	0.0	0.4	58.6	59.8
International Avg.	.	13.1	53.9	13.7	17.2	2.1	53.9	0.1	0.2	1.8	52.6	55.3

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent



Mathematics: Algebra  
 Label: Expression when a,b,c are real ( M022210 - R10 )  
 Item Type = MC Key = D

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	500	6.6	22.3	4.3	40.7	23.9	2.3	40.7	0.4	0.0	1.8	41.8	39.4
Belgium (Flemish)	657	2.3	18.8	3.2	55.6	17.3	2.7	55.6	0.7	0.0	2.0	60.5	51.1
Bulgaria	406	2.8	21.1	3.4	47.4	17.4	7.9	47.4	3.0	0.9	4.0	49.2	45.5
Canada	1084	5.5	20.7	5.2	42.9	23.7	2.0	42.9	0.2	0.0	1.8	45.2	40.6
Chile	735	11.9	37.3	9.5	10.7	25.1	5.4	10.7	0.0	0.0	5.4	8.5	12.9
Chinese Taipei	717	5.3	15.7	6.2	63.8	8.2	0.7	63.8	0.1	0.0	0.5	64.0	63.6
Cyprus	389	3.3	33.9	6.7	27.6	24.5	4.1	27.6	0.6	0.0	3.5	30.8	24.6
Czech Republic	424	5.9	17.6	2.3	49.8	19.3	5.2	49.8	0.7	0.0	4.5	51.4	48.0
England	362	7.7	26.9	6.1	29.8	24.5	4.9	29.8	1.0	1.9	2.0	28.5	31.3
Finland	370	9.4	30.1	10.4	19.4	25.1	5.7	19.4	0.0	0.0	5.7	20.0	18.8
Hong Kong, SAR	643	3.8	13.4	3.6	66.7	11.9	0.7	66.7	0.3	0.2	0.2	66.4	67.1
Hungary	394	4.3	15.1	2.2	58.5	16.5	3.4	58.5	0.6	0.0	2.9	54.7	62.2
Indonesia	724	11.6	45.1	3.3	14.3	24.0	1.6	14.3	0.2	0.0	1.4	12.1	16.5
Iran, Islamic Rep.	660	8.1	32.4	10.2	18.3	28.6	2.3	18.3	0.0	0.0	2.3	14.9	20.7
Israel	526	5.2	24.7	5.8	34.7	22.3	7.4	34.7	0.4	0.0	7.0	33.5	36.0
Italy	415	8.4	25.7	6.7	22.8	29.8	6.6	22.8	0.2	0.2	6.2	21.4	24.4
Japan	585	5.0	20.5	4.2	48.8	20.6	0.8	48.8	0.3	0.0	0.5	47.9	49.7
Jordan	630	4.8	26.4	7.5	30.9	27.8	2.6	30.9	0.5	0.0	2.1	28.4	33.1
Korea, Rep. of	763	4.4	13.2	5.0	68.5	8.6	0.2	68.5	0.0	0.0	0.2	68.0	69.0
Latvia (LSS)	355	5.9	25.5	1.7	42.1	21.3	3.6	42.1	0.3	0.7	2.6	43.2	41.0
Lithuania	292	4.3	27.5	3.2	29.7	28.2	7.0	29.7	0.0	0.0	7.0	27.4	32.4
Macedonia, Rep. of	506	6.0	31.7	2.9	30.3	23.7	5.4	30.3	0.9	0.2	4.3	32.0	28.5
Malaysia	702	2.9	38.9	3.9	26.1	26.4	1.8	26.1	0.0	0.0	1.8	27.0	25.0
Moldova	477	8.3	30.9	3.9	36.1	17.3	3.6	36.1	0.0	0.0	3.6	39.7	32.5
Morocco	648	10.7	25.0	8.2	21.2	21.9	13.0	21.2	1.0	5.7	6.3	21.5	21.1
Netherlands	365	4.5	17.1	8.0	39.7	27.4	3.3	39.7	0.0	0.0	3.3	37.0	42.7
New Zealand	435	11.1	20.7	9.9	30.2	25.0	3.2	30.2	0.9	0.0	2.2	33.8	26.6
Philippines	848	7.2	52.5	3.9	8.2	27.8	0.6	8.2	0.0	0.1	0.4	7.0	9.5
Romania	431	12.2	17.5	4.1	41.7	18.7	5.9	41.7	1.6	0.4	3.9	43.5	40.4
Russian Federation	531	12.0	7.4	2.5	72.2	1.9	4.0	72.2	0.5	0.1	3.4	74.1	70.1
Singapore	624	3.1	23.3	1.7	53.0	17.8	1.1	53.0	0.0	0.0	1.1	50.1	55.4
Slovak Republic	436	4.9	24.8	1.7	48.0	18.1	2.5	48.0	0.3	0.0	2.2	51.2	44.8
Slovenia	389	4.6	24.5	5.3	40.6	22.0	3.0	40.6	0.5	0.0	2.5	43.6	37.8
South Africa	993	10.0	29.6	6.1	19.3	33.6	1.4	19.3	0.9	0.2	0.3	18.1	20.7
Thailand	711	10.3	32.2	5.9	29.1	21.9	0.6	29.1	0.0	0.0	0.6	29.5	28.7
Tunisia	629	11.1	10.6	9.0	37.0	21.4	10.9	37.0	8.0	0.0	2.9	34.2	40.0
Turkey	990	9.8	32.4	6.7	20.2	27.9	3.2	20.2	0.0	0.0	3.2	18.7	21.5
United States	1080	7.9	23.4	7.0	40.1	20.2	1.3	40.1	0.1	0.0	1.2	43.1	37.2
International Avg.	.	6.9	25.2	5.3	37.3	21.6	3.7	37.3	0.6	0.3	2.8	37.4	37.1

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Geometry  
 Label: Right triangles to cover rectangle ( M022213 - R11 )  
 Item Type = MC Key = C

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	500	22.0	17.2	56.1	4.2	0.5	56.1	0.2	0.0	0.3	54.2	58.3
Belgium (Flemish)	657	18.2	10.0	68.0	3.4	0.4	68.0	0.0	0.0	0.4	64.7	71.1
Bulgaria	406	39.7	18.9	34.2	3.5	3.7	34.2	0.0	1.1	2.6	28.8	39.6
Canada	1084	24.6	21.9	49.6	3.8	0.1	49.6	0.0	0.0	0.1	49.1	50.4
Chile	735	36.6	27.1	27.0	8.7	0.5	27.0	0.0	0.0	0.5	21.9	32.1
Chinese Taipei	717	27.5	11.0	60.0	1.4	0.1	60.0	0.0	0.0	0.1	57.4	62.6
Cyprus	392	37.4	21.3	37.0	4.1	0.3	37.0	0.0	0.0	0.3	38.9	35.3
Czech Republic	424	18.8	21.8	55.1	2.9	1.5	55.1	0.0	0.0	1.5	54.2	56.0
England	362	29.9	18.7	48.1	1.4	1.9	48.1	0.0	1.9	0.0	44.7	51.7
Finland	370	21.3	26.6	49.1	2.8	0.2	49.1	0.0	0.0	0.2	43.8	54.6
Hong Kong, SAR	643	16.8	7.2	74.5	1.1	0.3	74.5	0.2	0.2	0.0	71.6	77.4
Hungary	394	23.2	15.7	59.4	1.2	0.5	59.4	0.3	0.0	0.3	55.3	63.5
Indonesia	723	38.4	22.9	29.5	8.8	0.5	29.5	0.2	0.0	0.3	24.9	34.1
Iran, Islamic Rep.	660	31.3	19.4	42.1	6.6	0.6	42.1	0.0	0.0	0.6	37.3	45.5
Israel	526	34.4	19.4	40.6	4.3	1.3	40.6	0.0	0.0	1.3	37.7	44.3
Italy	415	29.1	17.8	49.0	3.2	0.9	49.0	0.0	0.2	0.7	46.1	52.4
Japan	585	9.5	8.9	80.5	0.8	0.3	80.5	0.2	0.0	0.2	77.4	83.6
Jordan	630	42.5	21.7	26.0	7.8	2.0	26.0	0.1	0.0	1.8	23.0	28.7
Korea, Rep. of	763	15.0	7.6	75.8	1.5	0.1	75.8	0.0	0.0	0.1	71.8	79.9
Latvia (LSS)	355	30.2	17.2	47.7	4.1	0.9	47.7	0.0	0.7	0.2	49.9	45.7
Lithuania	292	28.7	21.7	43.3	5.8	0.6	43.3	0.0	0.0	0.6	40.1	46.9
Macedonia, Rep. of	506	36.3	21.4	29.5	10.6	2.3	29.5	0.1	0.2	1.9	25.0	34.4
Malaysia	702	21.9	14.0	60.3	3.6	0.2	60.3	0.0	0.0	0.2	58.1	63.0
Moldova	477	35.3	20.2	36.8	6.6	1.2	36.8	0.4	0.0	0.8	31.3	42.1
Morocco	648	35.6	20.9	20.6	11.0	11.9	20.6	0.6	7.0	4.3	16.5	23.8
Netherlands	365	23.4	10.0	65.7	0.5	0.3	65.7	0.0	0.0	0.3	61.0	70.9
New Zealand	435	19.3	21.9	54.6	3.9	0.4	54.6	0.0	0.0	0.4	52.3	56.8
Philippines	848	38.7	29.8	15.4	15.6	0.5	15.4	0.0	0.1	0.4	15.1	15.8
Romania	431	34.3	18.7	35.0	9.6	2.3	35.0	0.7	0.4	1.2	30.5	39.6
Russian Federation	531	33.9	19.3	43.7	2.7	0.5	43.7	0.2	0.1	0.1	42.2	45.2
Singapore	624	20.9	6.2	71.7	1.2	0.1	71.7	0.0	0.0	0.1	67.5	75.0
Slovak Republic	436	20.5	21.6	56.6	1.0	0.4	56.6	0.0	0.0	0.4	56.8	56.4
Slovenia	389	19.3	20.9	57.1	1.6	1.2	57.1	0.0	0.0	1.2	57.2	56.9
South Africa	993	38.1	26.4	12.4	21.5	1.5	12.4	0.9	0.2	0.4	11.5	13.4
Thailand	711	27.9	26.3	40.3	4.9	0.6	40.3	0.0	0.0	0.6	36.5	44.9
Tunisia	629	44.7	18.2	33.0	2.7	1.4	33.0	0.6	0.0	0.8	27.6	38.5
Turkey	990	39.6	21.3	30.2	8.2	0.7	30.2	0.0	0.0	0.7	28.5	31.6
United States	1080	24.8	20.7	47.0	7.0	0.5	47.0	0.0	0.0	0.5	42.2	51.6
International Avg.	.	28.7	18.7	46.4	5.1	1.1	46.4	0.1	0.3	0.7	43.5	49.3

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Algebra  
 Label: Operations on negative number ( M022166 - R12 )  
 Item Type = MC Key = A

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	500	34.0	7.8	40.2	17.3	0.7	34.0	0.0	0.0	0.7	36.1	31.5
Belgium (Flemish)	657	63.1	2.9	23.9	8.9	1.2	63.1	0.9	0.0	0.3	65.9	60.5
Bulgaria	406	65.6	4.2	17.2	8.2	4.7	65.6	0.8	1.1	2.8	72.6	58.6
Canada	1084	39.2	8.3	33.9	18.2	0.4	39.2	0.2	0.0	0.2	40.0	38.0
Chile	735	27.5	8.2	39.5	21.4	3.5	27.5	0.0	0.0	3.5	27.0	27.9
Chinese Taipei	717	83.6	2.2	10.6	3.3	0.3	83.6	0.0	0.0	0.3	84.4	82.9
Cyprus	389	29.4	9.7	38.8	20.7	1.4	29.4	0.0	0.0	1.4	32.0	27.0
Czech Republic	423	54.8	6.6	21.8	12.8	4.0	54.8	0.0	0.0	4.0	56.6	52.8
England	362	26.7	11.4	41.5	17.9	2.5	26.7	0.0	1.9	0.6	22.4	31.2
Finland	370	25.1	11.7	43.3	16.9	3.0	25.1	0.0	0.0	3.0	27.4	22.7
Hong Kong, SAR	643	79.3	2.3	9.4	8.2	0.7	79.3	0.0	0.2	0.5	81.2	77.5
Hungary	394	67.0	3.9	18.3	6.8	4.1	67.0	2.8	0.0	1.3	68.9	65.7
Indonesia	723	29.9	4.9	44.9	18.8	1.5	29.9	0.2	0.0	1.3	33.8	26.0
Iran, Islamic Rep.	659	29.7	6.8	39.5	22.3	1.7	29.7	0.0	0.0	1.7	29.4	29.9
Israel	526	48.3	9.0	22.1	17.5	3.1	48.3	0.2	0.0	2.9	47.5	49.4
Italy	415	48.5	3.9	29.9	13.8	3.8	48.5	0.0	0.2	3.6	46.2	51.1
Japan	585	69.2	6.0	18.7	5.4	0.8	69.2	0.1	0.0	0.6	67.9	70.4
Jordan	630	27.9	10.1	40.9	19.4	1.7	27.9	0.1	0.0	1.5	30.1	26.0
Korea, Rep. of	763	69.4	6.4	14.9	9.1	0.2	69.4	0.0	0.0	0.2	69.1	69.7
Latvia (LSS)	355	67.0	3.5	21.9	5.0	2.6	67.0	0.0	0.7	1.9	75.2	59.8
Lithuania	292	63.5	2.5	22.5	8.6	2.8	63.5	0.0	0.0	2.8	72.8	53.1
Macedonia, Rep. of	506	40.0	6.4	37.3	11.9	4.5	40.0	0.7	0.2	3.5	41.1	38.8
Malaysia	702	41.7	3.5	35.9	17.9	1.0	41.7	0.0	0.0	1.0	43.8	39.2
Moldova	477	49.3	4.1	35.3	8.6	2.7	49.3	0.5	0.0	2.2	53.3	45.4
Morocco	650	29.3	12.8	31.4	12.1	14.4	29.3	1.0	7.8	5.6	29.6	28.9
Netherlands	365	42.5	11.5	23.9	20.7	1.3	42.5	0.0	0.0	1.3	42.5	42.4
New Zealand	435	20.5	10.3	44.5	23.0	1.7	20.5	0.7	0.0	1.0	21.2	19.7
Philippines	848	25.1	8.9	39.0	26.6	0.4	25.1	0.0	0.1	0.3	26.2	23.8
Romania	431	58.9	5.2	20.6	11.3	4.1	58.9	1.8	0.4	1.9	66.6	52.0
Russian Federation	531	81.1	1.1	13.3	4.1	0.4	81.1	0.3	0.1	0.0	84.6	77.2
Singapore	624	62.7	2.8	15.4	18.6	0.4	62.7	0.0	0.0	0.4	63.2	62.3
Slovak Republic	436	66.2	5.0	18.7	9.0	1.0	66.2	0.0	0.0	1.0	70.4	62.0
Slovenia	389	67.1	4.2	21.1	6.2	1.5	67.1	0.2	0.0	1.2	73.0	61.4
South Africa	993	16.4	11.5	45.5	25.3	1.2	16.4	0.6	0.4	0.2	19.1	13.4
Thailand	711	32.4	9.9	42.1	14.8	0.8	32.4	0.0	0.0	0.8	34.9	29.4
Tunisia	629	41.4	9.1	29.9	12.8	6.9	41.4	4.8	0.0	2.0	41.7	41.0
Turkey	990	33.4	9.3	38.7	16.1	2.5	33.4	0.1	0.0	2.4	37.6	29.8
United States	1080	46.0	7.0	30.6	16.0	0.5	46.0	0.0	0.0	0.5	48.2	43.8
International Avg.	.	47.4	6.7	29.4	14.1	2.4	47.4	0.4	0.3	1.6	49.6	45.3

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Fractions and Number Sense  
 Label: Subtraction of 4-digit whole numbers ( M022245 - R13 )  
 Item Type = MC Key = B

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	500	11.3	76.9	4.8	6.3	0.7	76.9	0.2	0.0	0.4	80.5	72.7
Belgium (Flemish)	657	4.6	84.7	0.9	9.1	0.6	84.7	0.6	0.0	0.0	87.9	81.8
Bulgaria	406	8.6	75.7	3.5	10.0	2.3	75.7	0.1	1.4	0.8	78.3	73.0
Canada	1084	7.7	82.6	2.8	6.2	0.7	82.6	0.0	0.0	0.7	84.6	80.2
Chile	735	16.0	59.0	9.7	14.3	0.9	59.0	0.0	0.0	0.9	60.7	57.4
Chinese Taipei	717	5.2	90.2	1.1	2.9	0.6	90.2	0.1	0.0	0.4	89.9	90.6
Cyprus	390	12.4	70.5	4.8	11.8	0.5	70.5	0.0	0.0	0.5	75.8	65.6
Czech Republic	423	3.2	81.6	3.1	11.4	0.8	81.6	0.0	0.0	0.8	82.2	80.9
England	362	19.9	50.7	16.0	10.5	2.9	50.7	0.2	1.9	0.8	52.0	49.3
Finland	370	8.0	75.8	5.2	8.7	2.4	75.8	0.0	0.0	2.4	82.0	69.3
Hong Kong, SAR	643	3.4	89.6	0.9	5.5	0.7	89.6	0.1	0.4	0.2	90.7	88.5
Hungary	394	1.7	87.3	1.8	8.4	0.8	87.3	0.0	0.0	0.8	90.0	85.2
Indonesia	724	22.6	54.7	10.3	11.4	0.9	54.7	0.0	0.0	0.9	56.5	52.9
Iran, Islamic Rep.	659	13.1	72.9	3.4	10.4	0.3	72.9	0.0	0.0	0.3	70.0	74.9
Israel	526	14.4	67.4	6.2	10.7	1.4	67.4	0.5	0.0	0.8	66.9	68.3
Italy	415	15.6	67.1	5.6	10.1	1.6	67.1	0.0	0.2	1.4	66.7	67.6
Japan	585	6.2	86.3	1.3	6.2	0.0	86.3	0.0	0.0	0.0	84.9	87.6
Jordan	630	9.3	68.6	13.0	8.5	0.6	68.6	0.4	0.0	0.2	73.8	64.0
Korea, Rep. of	763	5.6	88.2	0.8	5.2	0.1	88.2	0.1	0.0	0.0	88.2	88.2
Latvia (LSS)	355	12.8	73.7	2.5	9.8	1.1	73.7	0.0	0.7	0.5	78.0	69.9
Lithuania	292	6.7	80.2	1.5	10.8	0.7	80.2	0.0	0.0	0.7	81.7	78.7
Macedonia, Rep. of	506	10.2	64.8	9.5	11.6	3.8	64.8	0.0	0.2	3.6	65.6	63.9
Malaysia	702	1.9	94.4	0.3	3.4	0.0	94.4	0.0	0.0	0.0	94.6	94.1
Moldova	477	8.4	79.2	4.5	6.8	1.0	79.2	0.4	0.0	0.6	82.1	76.3
Morocco	650	10.3	54.2	8.5	11.7	15.4	54.2	1.4	9.0	5.0	53.1	54.9
Netherlands	365	8.2	79.0	3.6	8.7	0.5	79.0	0.0	0.0	0.5	78.5	79.5
New Zealand	435	16.6	58.0	14.8	9.4	1.3	58.0	0.2	0.0	1.0	55.5	60.4
Philippines	848	12.7	58.2	15.0	12.8	1.4	58.2	0.9	0.1	0.3	57.1	59.5
Romania	431	9.4	68.4	5.9	13.0	3.4	68.4	0.0	0.4	3.0	69.9	67.6
Russian Federation	531	8.5	79.3	0.4	10.8	1.1	79.3	0.2	0.1	0.8	79.4	79.2
Singapore	624	3.5	92.0	0.3	4.2	0.0	92.0	0.0	0.0	0.0	92.8	91.4
Slovak Republic	436	2.8	86.3	2.3	8.6	0.1	86.3	0.0	0.0	0.1	89.1	83.6
Slovenia	389	2.2	82.9	1.6	13.0	0.3	82.9	0.0	0.0	0.3	82.8	82.9
South Africa	993	18.9	36.9	30.5	11.4	2.5	36.9	0.6	0.4	1.4	34.7	39.3
Thailand	711	8.6	76.6	5.7	8.7	0.3	76.6	0.0	0.0	0.3	77.1	76.2
Tunisia	629	5.5	79.9	2.4	10.7	1.6	79.9	0.1	0.0	1.5	82.1	77.5
Turkey	990	15.0	68.9	5.2	9.8	1.0	68.9	0.0	0.0	1.0	69.3	68.6
United States	1080	6.5	80.6	2.9	9.4	0.5	80.6	0.0	0.0	0.5	82.0	79.2
International Avg.	.	9.4	74.3	5.6	9.3	1.4	74.3	0.2	0.4	0.9	75.4	73.2

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Fractions and Number Sense  
 Label: How much money left if spent 5/8 ( M022219 - R14 )  
 Item Type = SA Key = X

COUNTRY	N	10	70	79	99	V1	NOT REACH		1.GIRL	2.BOY
							ED	OMIT	% Right	% Right
Australia	500	37.0	20.0	35.5	7.4	37.0	0.0	7.4	39.5	34.1
Belgium (Flemish)	657	45.0	35.2	17.6	2.1	45.0	0.0	2.1	46.3	43.9
Bulgaria	406	27.2	28.8	26.9	17.1	27.2	1.7	15.4	26.4	28.0
Canada	1084	30.3	21.3	41.4	6.9	30.3	0.0	6.9	26.4	34.7
Chile	735	5.8	9.4	59.6	25.2	5.8	0.0	25.2	4.6	6.8
Chinese Taipei	717	49.4	32.2	16.5	1.9	49.4	0.0	1.9	47.7	51.1
Cyprus	392	32.6	24.8	28.3	14.4	32.6	0.0	14.4	32.6	32.6
Czech Republic	424	30.3	19.3	35.2	15.2	30.3	0.0	15.2	23.5	37.5
England	362	23.8	13.0	51.1	12.1	23.8	1.9	10.2	23.7	23.9
Finland	370	47.7	13.2	34.5	4.5	47.7	0.0	4.5	49.6	45.8
Hong Kong, SAR	643	65.6	24.0	8.8	1.6	65.6	0.4	1.2	68.1	63.3
Hungary	394	40.3	27.9	22.9	8.9	40.3	0.0	8.9	34.4	46.6
Indonesia	724	10.8	38.5	44.2	6.5	10.8	0.0	6.5	11.5	10.1
Iran, Islamic Rep.	660	20.2	13.4	57.2	9.2	20.2	0.0	9.2	11.9	25.9
Israel	526	23.1	13.6	42.1	21.2	23.1	0.0	21.2	18.2	29.1
Italy	415	23.9	40.4	22.9	12.8	23.9	0.2	12.6	18.6	30.0
Japan	585	50.0	26.5	20.2	3.3	50.0	0.0	3.3	45.0	55.0
Jordan	630	14.4	12.2	64.8	8.6	14.4	0.0	8.6	13.5	15.3
Korea, Rep. of	763	49.7	30.6	17.0	2.7	49.7	0.0	2.7	44.4	55.0
Latvia (LSS)	355	23.6	26.7	35.8	13.9	23.6	0.7	13.2	24.1	23.1
Lithuania	292	19.2	19.1	38.5	23.2	19.2	0.0	23.2	18.4	20.2
Macedonia, Rep. of	506	14.5	15.8	37.0	32.7	14.5	0.2	32.5	12.9	16.2
Malaysia	702	59.0	23.7	14.6	2.7	59.0	0.0	2.7	64.8	52.1
Moldova	477	37.5	16.3	38.3	7.9	37.5	0.0	7.9	33.7	41.2
Morocco	650	0.9	5.1	40.0	54.1	0.9	11.1	43.0	0.3	1.3
Netherlands	365	46.8	23.1	27.5	2.6	46.8	0.0	2.6	49.3	44.0
New Zealand	435	23.9	11.7	53.7	10.6	23.9	0.0	10.6	25.0	22.9
Philippines	848	3.8	6.0	76.7	13.6	3.8	0.1	13.5	3.1	4.5
Romania	431	21.1	31.5	32.0	15.4	21.1	0.4	15.0	18.7	22.8
Russian Federation	531	27.1	27.2	30.5	15.2	27.1	0.1	15.1	25.6	28.9
Singapore	624	77.9	14.9	6.0	1.2	77.9	0.0	1.2	80.7	75.6
Slovak Republic	436	33.2	23.1	28.9	14.8	33.2	0.0	14.8	30.8	35.6
Slovenia	389	35.2	20.7	33.2	10.8	35.2	0.0	10.8	35.1	35.3
South Africa	993	3.0	3.3	87.4	6.3	3.0	0.4	5.8	2.9	3.2
Thailand	711	21.0	31.3	42.5	5.2	21.0	0.0	5.2	20.5	21.7
Tunisia	628	22.5	23.8	40.0	13.7	22.5	0.0	13.7	17.1	28.1
Turkey	990	16.6	33.1	35.7	14.5	16.6	0.0	14.5	15.6	17.6
United States	1080	24.5	18.2	50.4	6.9	24.5	0.0	6.8	23.9	25.2
International Avg.	.	30.0	21.6	36.7	11.8	30.0	0.5	11.3	28.6	31.3

V1 = % Scoring 1 or better V2 = % Scoring 2 or better V3 = % Scoring 3 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Fractions and Number Sense  
 Label: Money from total magazine sales ( M022222 - R15 )  
 Item Type = SA Key = X

COUNTRY	N	10	70	71	72	77	79	99	V1	NOT REACH		1.GIRL	2.BOY
										ED	OMIT	% Right	% Right
Australia	500	44.0	4.6	1.8	2.0	0.0	37.7	10.0	44.0	0.0	10.0	43.5	44.6
Belgium (Flemish)	657	59.7	0.8	1.9	1.9	0.0	30.6	5.1	59.7	0.0	5.1	66.9	53.0
Bulgaria	405	50.0	2.1	2.0	1.3	0.0	20.0	24.6	50.0	1.7	22.9	49.2	50.9
Canada	1084	45.6	4.2	2.1	1.0	0.0	39.5	7.6	45.6	0.0	7.6	42.9	48.7
Chile	735	21.6	4.0	5.7	1.5	11.0	44.4	11.8	21.6	0.0	11.8	18.2	24.9
Chinese Taipei	717	74.6	1.1	3.1	1.3	0.0	17.8	2.1	74.6	0.0	2.1	72.3	76.9
Cyprus	391	40.4	3.0	1.9	1.9	0.0	32.8	20.0	40.4	0.0	20.0	41.4	39.5
Czech Republic	424	53.9	1.9	2.3	1.1	0.0	28.0	12.8	53.9	0.0	12.8	54.7	53.1
England	362	31.0	6.0	4.2	2.4	0.0	43.2	13.1	31.0	1.9	11.3	24.9	37.3
Finland	370	47.2	3.0	4.5	3.2	0.0	32.7	9.5	47.2	0.0	9.5	46.8	47.6
Hong Kong, SAR	643	72.3	1.0	0.8	1.6	0.0	19.6	4.6	72.3	0.5	4.1	73.3	71.4
Hungary	394	57.9	0.7	1.1	2.3	0.0	26.7	11.3	57.9	0.0	11.3	57.9	58.5
Indonesia	724	27.0	4.4	13.9	4.4	0.0	44.9	5.4	27.0	0.0	5.4	28.7	25.3
Iran, Islamic Rep.	661	27.8	3.2	10.4	2.2	0.0	44.0	12.4	27.8	0.0	12.4	21.9	31.9
Israel	526	29.8	3.3	3.4	2.7	0.0	37.1	23.7	29.8	0.0	23.7	25.3	35.5
Italy	415	36.2	2.1	1.6	1.6	0.0	33.1	25.4	36.2	0.2	25.2	34.1	38.5
Japan	585	66.5	2.5	3.3	4.5	0.0	17.1	6.1	66.5	0.0	6.1	62.8	70.2
Jordan	630	23.1	3.2	11.3	2.6	0.0	51.3	8.6	23.1	0.1	8.5	17.1	28.4
Korea, Rep. of	763	69.4	2.9	2.5	4.9	0.0	15.2	5.0	69.4	0.0	5.0	64.1	74.7
Latvia (LSS)	355	48.3	3.5	2.4	2.8	0.0	28.9	14.1	48.3	0.7	13.5	41.4	54.4
Lithuania	292	53.8	2.0	5.3	1.4	0.0	24.2	13.4	53.8	0.0	13.4	47.8	60.4
Macedonia, Rep. of	506	29.7	3.1	2.1	2.2	0.0	33.8	29.2	29.7	0.2	29.0	27.1	32.4
Malaysia	702	64.8	1.9	4.7	2.5	0.0	22.2	3.9	64.8	0.0	3.9	66.2	63.1
Moldova	477	54.2	2.2	4.7	0.8	0.0	30.1	7.9	54.2	0.0	7.9	52.6	55.8
Morocco	650	3.1	0.7	3.2	0.7	0.0	36.4	55.8	3.1	14.7	41.1	1.4	4.4
Netherlands	365	53.1	4.9	0.5	1.6	0.0	36.2	3.6	53.1	0.0	3.6	50.1	56.5
New Zealand	435	32.8	4.8	1.1	0.9	0.0	50.1	10.4	32.8	0.0	10.4	32.5	33.0
Philippines	848	11.6	2.5	5.9	1.8	0.0	67.5	10.6	11.6	0.1	10.5	11.1	12.1
Romania	431	43.4	4.2	3.6	3.4	0.0	29.7	15.7	43.4	0.4	15.3	42.3	44.8
Russian Federation	531	52.5	0.7	1.6	1.0	0.0	28.2	16.0	52.5	0.1	15.9	47.4	58.2
Singapore	624	84.4	0.5	0.7	1.5	0.0	11.8	1.1	84.4	0.0	1.1	86.0	83.2
Slovak Republic	436	53.9	2.2	2.6	1.0	0.0	26.5	13.9	53.9	0.0	13.9	48.9	58.9
Slovenia	389	60.4	3.3	1.8	1.2	0.0	24.6	8.7	60.4	0.0	8.7	59.7	61.0
South Africa	993	8.5	2.7	2.4	1.3	0.0	79.2	5.9	8.5	0.5	5.3	8.7	8.4
Thailand	711	38.2	5.7	3.0	2.5	0.0	47.4	3.2	38.2	0.0	3.2	37.5	39.0
Tunisia	627	39.3	1.3	9.9	1.4	0.0	34.7	13.6	39.3	0.0	13.6	33.3	45.4
Turkey	990	26.4	4.6	8.7	4.2	0.0	37.8	18.3	26.4	0.0	18.3	22.1	30.2
United States	1080	40.6	4.2	3.0	1.9	0.0	44.3	6.0	40.6	0.1	6.0	37.0	44.0
International Avg.	.	44.1	2.9	3.8	2.1	0.3	34.5	12.4	44.1	0.6	11.8	42.1	46.2

V1 = % Scoring 1 or better V2 = % Scoring 2 or better V3 = % Scoring 3 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Algebra  
 Label: Sequence of figures with triangles ( M022261A - S01A )  
 Item Type = EX Key = X

COUNTRY	N	10	70	71	79	99	V1	NOT REACH		1.GIRL	2.BOY
								ED	OMIT	% Right	% Right
Australia	497	63.0	26.7	1.2	4.8	4.3	63.0	0.5	3.8	60.5	65.7
Belgium (Flemish)	648	59.3	29.8	4.6	4.8	1.5	59.3	0.1	1.4	61.1	57.5
Bulgaria	412	44.4	31.8	6.6	5.8	11.4	44.4	2.5	8.8	41.1	47.3
Canada	1087	62.3	28.2	2.1	5.3	2.1	62.3	0.4	1.7	62.7	61.8
Chile	728	16.2	33.2	12.2	6.2	32.2	16.2	16.7	15.5	15.2	17.2
Chinese Taipei	726	71.7	18.1	1.1	7.3	1.8	71.7	0.2	1.6	68.9	74.6
Cyprus	389	30.6	45.1	7.7	9.6	7.0	30.6	1.1	5.9	27.6	33.6
Czech Republic	419	49.8	31.2	7.6	6.0	5.4	49.8	2.0	3.4	48.7	51.1
England	364	49.7	37.9	2.4	8.7	1.3	49.7	0.8	0.5	46.6	52.8
Finland	362	52.8	34.4	4.1	7.0	1.6	52.8	0.1	1.4	53.9	51.8
Hong Kong, SAR	647	75.0	14.9	0.8	5.7	3.6	75.0	0.0	3.6	74.7	75.3
Hungary	405	51.0	27.4	8.2	6.3	7.1	51.0	2.7	4.4	46.6	55.1
Indonesia	738	28.2	42.6	3.0	17.7	8.5	28.2	2.5	5.9	23.9	33.4
Iran, Islamic Rep.	656	16.1	36.8	5.7	27.2	14.2	16.1	1.6	12.6	14.8	17.1
Israel	532	32.7	33.4	7.5	11.0	15.4	32.7	5.1	10.3	31.7	33.9
Italy	428	35.6	38.8	6.0	5.6	13.9	35.6	2.8	11.1	33.4	38.1
Japan	585	80.1	13.5	1.0	4.7	0.8	80.1	0.2	0.6	78.4	81.7
Jordan	625	20.1	35.5	8.2	25.2	10.9	20.1	1.3	9.6	24.4	16.3
Korea, Rep. of	766	70.8	20.3	1.3	6.9	0.6	70.8	0.3	0.3	71.5	70.1
Latvia (LSS)	364	35.2	27.3	11.4	11.9	14.3	35.2	4.9	9.4	38.2	32.2
Lithuania	298	28.8	37.3	10.1	9.6	14.3	28.8	4.7	9.6	27.0	30.5
Macedonia, Rep. of	497	23.6	29.6	12.4	11.8	22.6	23.6	6.4	16.2	22.3	24.9
Malaysia	696	48.0	32.1	2.2	9.0	8.6	48.0	1.3	7.4	48.7	47.2
Moldova	460	27.2	22.4	12.8	10.1	27.4	27.2	3.1	24.3	27.4	27.0
Morocco	648	6.3	28.6	6.8	17.7	40.6	6.3	15.3	25.2	5.4	7.0
Netherlands	378	63.5	26.5	1.3	6.7	1.9	63.5	0.0	1.9	62.3	64.8
New Zealand	451	57.2	27.8	1.3	8.0	5.7	57.2	1.5	4.2	60.4	54.3
Philippines	820	14.8	30.2	4.8	23.4	26.8	14.8	2.2	24.5	14.6	15.1
Romania	425	33.3	32.9	13.2	10.2	10.4	33.3	0.2	10.2	37.3	29.0
Russian Federation	547	40.5	30.9	5.6	6.6	16.4	40.5	4.7	11.7	38.9	42.3
Singapore	616	75.1	17.8	1.4	4.7	1.0	75.1	0.0	1.0	78.1	72.3
Slovak Republic	436	45.2	35.1	8.5	2.8	8.3	45.2	2.1	6.2	40.4	50.6
Slovenia	377	55.5	31.0	6.5	4.4	2.6	55.5	0.0	2.6	52.3	59.2
South Africa	972	5.1	12.9	2.2	28.2	51.6	5.1	7.9	43.7	3.9	6.4
Thailand	717	27.0	34.8	1.7	25.9	10.6	27.0	1.1	9.6	31.2	22.2
Tunisia	629	12.8	37.2	8.7	18.5	22.8	12.8	10.5	12.3	14.3	11.4
Turkey	974	17.4	30.7	14.4	13.4	24.1	17.4	0.6	23.5	17.9	17.0
United States	1124	44.7	33.4	2.6	11.9	7.4	44.7	0.4	7.0	46.6	42.7
International Avg.	.	41.3	30.0	5.8	10.8	12.1	41.3	2.8	9.3	40.9	41.9

V1 = % Scoring 1 or better V2 = % Scoring 2 or better V3 = % Scoring 3 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Algebra  
 Label: Sequence of figures with triangles ( M022261B - S01B )  
 Item Type = EX Key = X

COUNTRY	N	10	70	71	79	99	V1	NOT REACH		1.GIRL % Right	2.BOY % Right
								ED	OMIT		
Australia	497	36.0	1.5	2.3	45.5	14.7	36.0	0.8	13.9	37.1	34.9
Belgium (Flemish)	648	36.7	0.8	2.6	47.9	11.9	36.7	0.2	11.7	40.9	32.6
Bulgaria	412	34.5	0.0	1.9	31.1	32.6	34.5	5.9	26.7	30.3	39.0
Canada	1087	41.7	0.3	2.5	45.7	9.7	41.7	0.6	9.2	44.8	38.8
Chile	728	6.7	0.7	3.3	39.1	50.1	6.7	22.5	27.7	7.0	6.4
Chinese Taipei	726	61.9	1.8	1.9	30.2	4.2	61.9	0.3	3.9	59.4	64.4
Cyprus	392	16.8	0.6	3.8	50.5	28.3	16.8	2.2	26.1	14.5	19.1
Czech Republic	419	24.6	1.4	2.5	41.6	29.9	24.6	2.6	27.3	18.7	31.5
England	364	28.6	1.3	1.1	55.0	13.9	28.6	0.8	13.1	28.6	28.1
Finland	362	21.6	1.3	2.8	64.0	10.3	21.6	0.1	10.2	24.3	19.1
Hong Kong, SAR	646	63.6	0.8	0.7	29.3	5.6	63.6	0.4	5.2	64.0	63.3
Hungary	405	29.0	0.5	3.6	41.2	25.7	29.0	3.5	22.2	25.7	31.8
Indonesia	738	22.2	1.5	1.2	60.1	15.0	22.2	3.2	11.8	20.9	23.8
Iran, Islamic Rep.	656	9.6	0.4	5.1	54.2	30.8	9.6	3.7	27.1	11.3	8.3
Israel	532	17.7	0.9	3.8	42.6	35.1	17.7	6.9	28.2	16.5	19.0
Italy	428	23.1	1.7	2.9	40.8	31.5	23.1	5.7	25.8	23.4	22.8
Japan	585	64.9	0.7	0.6	28.8	5.1	64.9	0.2	4.9	64.1	65.6
Jordan	625	11.4	1.3	2.2	63.2	21.9	11.4	3.2	18.8	14.0	9.0
Korea, Rep. of	766	60.6	0.6	2.8	32.8	3.2	60.6	0.5	2.7	62.4	58.9
Latvia (LSS)	364	19.0	0.3	3.1	44.9	32.8	19.0	6.3	26.4	21.5	16.5
Lithuania	298	14.1	0.0	3.0	42.4	40.4	14.1	5.9	34.5	10.8	17.3
Macedonia, Rep. of	496	15.4	2.2	5.1	33.7	43.6	15.4	11.5	32.1	11.3	19.0
Malaysia	696	34.0	1.0	5.4	44.5	15.1	34.0	2.4	12.7	33.6	34.5
Moldova	460	20.7	1.4	1.8	36.6	39.4	20.7	8.0	31.5	18.7	23.0
Morocco	649	2.0	0.5	1.6	41.6	54.3	2.0	20.7	33.6	1.6	2.2
Netherlands	378	37.4	0.3	0.6	56.9	4.7	37.4	0.0	4.7	37.4	37.3
New Zealand	451	27.5	1.3	3.0	52.4	15.7	27.5	1.5	14.2	30.5	24.8
Philippines	820	9.3	2.6	3.0	59.8	25.3	9.3	3.8	21.6	10.3	8.1
Romania	426	21.3	0.6	3.2	43.1	31.7	21.3	0.6	31.1	24.1	18.4
Russian Federation	547	24.5	0.8	2.5	36.6	35.7	24.5	6.9	28.8	24.1	24.9
Singapore	616	56.6	0.8	1.5	38.6	2.5	56.6	0.0	2.5	59.0	54.3
Slovak Republic	435	30.6	1.8	2.1	34.4	31.1	30.6	3.2	27.9	28.2	33.4
Slovenia	377	30.5	1.4	3.4	41.8	22.9	30.5	0.2	22.8	27.9	33.5
South Africa	972	1.9	0.4	1.1	70.7	25.9	1.9	11.1	14.8	1.7	2.1
Thailand	717	19.0	1.8	4.8	64.1	10.2	19.0	1.7	8.5	23.1	14.3
Tunisia	629	5.7	0.3	12.9	35.7	45.5	5.7	15.3	30.2	5.3	6.0
Turkey	974	9.0	0.6	2.7	57.0	30.7	9.0	2.0	28.8	9.4	8.7
United States	1124	25.7	1.3	2.5	59.1	11.5	25.7	0.5	11.0	26.7	24.6
International Avg.	.	26.7	1.0	2.9	45.7	23.6	26.7	4.3	19.3	26.7	26.8

V1 = % Scoring 1 or better V2 = % Scoring 2 or better V3 = % Scoring 3 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent



Mathematics: Algebra  
 Label: Sequence of figures with triangles ( M022261C - S01C )  
 Item Type = EX Key = X

COUNTRY	N	20	21	10	19	70	71	77	79	99	V1	V2	NOT	OMIT	1.GIRL	2.BOY
													REACH		% Right	% Right
													ED			
Australia	497	9.3	14.7	0.9	1.2	1.0	1.9	0.0	40.9	30.0	26.2	24.1	1.4	28.6	24.2	23.9
Belgium (Flemish)	648	2.5	25.1	0.4	1.9	2.9	1.6	0.0	42.1	23.4	29.9	27.6	0.5	22.9	30.4	24.9
Bulgaria	412	2.1	15.5	1.0	3.5	0.5	0.2	0.0	16.0	61.1	22.1	17.6	8.6	52.5	15.9	19.5
Canada	1087	6.8	19.2	0.3	1.4	2.2	1.1	0.0	45.5	23.4	27.7	26.0	0.9	22.5	27.4	24.6
Chile	728	0.4	3.3	0.2	0.1	1.1	0.7	4.3	22.3	67.6	4.1	3.7	29.4	38.2	3.6	3.9
Chinese Taipei	726	10.7	45.8	0.6	1.2	1.4	1.1	0.0	26.0	13.1	58.4	56.5	0.3	12.8	54.3	58.8
Cyprus	391	1.8	7.8	0.6	0.0	1.4	0.2	0.0	31.0	57.1	10.3	9.6	3.1	54.0	10.1	9.2
Czech Republic	419	0.3	21.1	0.0	0.4	0.8	0.5	0.0	28.1	48.8	21.8	21.4	6.0	42.8	16.2	27.5
England	364	8.8	13.9	0.0	0.5	2.9	2.3	0.0	38.1	33.4	23.2	22.7	1.5	31.9	20.2	25.6
Finland	362	0.3	12.5	0.2	1.6	1.7	0.2	0.0	55.9	27.6	14.5	12.7	0.9	26.8	15.4	10.2
Hong Kong, SAR	647	3.9	49.5	1.3	2.8	1.8	1.6	0.0	18.4	20.7	57.5	53.4	0.5	20.2	53.4	53.4
Hungary	405	6.3	12.9	1.1	2.0	0.5	0.8	0.0	31.3	45.1	22.3	19.2	6.3	38.8	17.0	20.9
Indonesia	738	0.0	12.5	1.9	0.1	2.3	2.5	0.0	50.3	30.3	14.6	12.6	6.0	24.4	11.4	14.0
Iran, Islamic Rep.	656	0.9	4.7	0.5	0.4	1.2	0.8	0.0	27.5	64.0	6.5	5.6	5.9	58.1	5.1	5.9
Israel	532	2.6	7.7	1.4	1.9	1.0	0.7	0.0	27.3	57.3	13.7	10.3	10.8	46.6	7.0	13.7
Italy	428	2.3	13.1	1.1	0.2	1.9	1.4	0.0	31.3	48.7	16.7	15.4	9.4	39.3	16.7	14.1
Japan	585	4.6	49.9	1.4	0.1	1.4	1.5	0.0	23.6	17.4	56.0	54.4	0.6	16.8	53.2	55.7
Jordan	625	0.6	6.7	0.8	0.5	1.9	1.7	0.0	45.9	41.7	8.7	7.3	4.5	37.3	8.5	6.3
Korea, Rep. of	766	18.6	27.7	1.6	4.2	0.0	0.3	0.0	29.3	18.3	52.1	46.3	0.6	17.6	51.3	41.4
Latvia (LSS)	364	0.4	10.6	1.2	0.3	0.6	0.2	0.0	28.6	58.1	12.5	11.1	7.9	50.1	12.2	10.0
Lithuania	298	1.6	6.0	0.9	1.7	0.8	1.1	0.0	21.6	66.4	10.2	7.6	9.7	56.7	6.4	8.7
Macedonia, Rep. of	497	1.6	3.1	2.6	0.2	2.6	1.3	0.0	19.0	69.6	7.6	4.7	16.3	53.3	3.2	6.0
Malaysia	695	0.9	17.5	1.5	2.2	1.2	0.9	0.0	39.5	36.2	22.2	18.5	3.5	32.6	19.2	17.7
Moldova	460	0.6	11.6	2.8	0.4	1.0	1.0	0.0	21.8	60.8	15.4	12.2	10.5	50.3	12.5	12.0
Morocco	648	0.0	1.4	0.8	0.0	0.8	0.5	0.0	24.1	72.4	2.2	1.4	24.5	47.9	1.5	1.3
Netherlands	378	4.5	28.4	0.3	2.8	0.9	0.8	0.0	41.6	20.7	36.0	32.9	0.0	20.7	29.9	36.0
New Zealand	451	5.6	17.6	0.0	0.9	0.9	1.5	0.0	40.1	33.4	24.1	23.2	2.2	31.2	27.3	19.5
Philippines	820	0.5	2.6	0.4	0.6	1.1	1.3	0.0	32.8	60.7	4.1	3.1	4.5	56.3	4.4	1.6
Romania	425	3.2	9.2	1.9	0.6	0.8	0.4	0.0	20.9	62.9	14.9	12.4	1.2	61.7	12.9	11.9
Russian Federation	547	1.6	8.9	1.8	1.6	0.8	0.9	0.0	19.3	65.1	14.0	10.5	9.4	55.7	9.9	11.3
Singapore	616	14.1	32.7	0.1	1.5	1.7	1.1	0.0	34.7	14.0	48.5	46.9	0.1	13.9	49.4	44.4
Slovak Republic	436	1.9	15.6	1.0	2.2	1.2	1.2	0.0	20.9	56.1	20.6	17.4	6.8	49.3	15.7	19.3
Slovenia	377	2.8	17.1	1.2	1.4	1.2	0.4	0.0	30.2	45.6	22.6	20.0	1.5	44.1	19.3	20.8
South Africa	972	0.0	1.1	0.0	0.0	0.7	0.3	0.0	16.2	81.6	1.1	1.1	12.4	69.3	0.9	1.3
Thailand	717	0.4	9.1	0.2	0.5	1.5	1.6	0.0	57.5	29.2	10.2	9.4	2.4	26.8	12.0	6.5
Tunisia	629	0.0	1.7	2.1	0.0	1.9	0.3	0.0	23.9	70.1	3.8	1.7	20.0	50.1	1.9	1.6
Turkey	974	0.4	3.5	1.1	0.4	1.7	0.4	0.0	26.1	66.4	5.4	3.9	3.3	63.1	4.1	3.7
United States	1124	5.4	11.8	0.3	0.1	1.1	1.3	0.0	55.0	25.1	17.6	17.2	1.1	24.0	18.6	15.8
International Avg.	.	3.4	15.1	0.9	1.1	1.3	1.0	0.1	31.7	45.4	20.5	18.5	6.2	39.2	18.5	18.5

V1 = % Scoring 1 or better V2 = % Scoring 2 or better V3 = % Scoring 3 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Measurement  
 Label: Area, side, and perimeter of 5 squares ( M022227A - S02A )  
 Item Type = EX Key = X

COUNTRY	N	10	70	79	99	V1	NOT REACH		1.GIRL % Right	2.BOY % Right
							ED	OMIT		
Australia	497	57.5	1.3	31.9	9.3	57.5	2.0	7.2	61.0	53.9
Belgium (Flemish)	648	74.2	1.0	22.5	2.2	74.2	0.6	1.6	79.8	68.8
Bulgaria	412	62.5	0.0	15.0	22.6	62.5	9.5	13.1	62.0	62.6
Canada	1087	73.0	0.5	20.2	6.3	73.0	1.3	5.0	75.2	70.9
Chile	728	16.5	0.2	24.6	58.8	16.5	33.1	25.7	17.9	14.9
Chinese Taipei	726	82.6	0.2	14.8	2.4	82.6	0.3	2.1	81.3	84.0
Cyprus	392	51.1	0.2	30.1	18.6	51.1	3.6	14.9	52.2	49.9
Czech Republic	419	58.9	0.5	22.7	17.9	58.9	6.2	11.7	59.0	58.8
England	364	47.5	0.9	42.3	9.2	47.5	2.3	6.9	48.1	46.3
Finland	362	58.7	1.4	30.4	9.5	58.7	1.5	8.0	56.4	60.8
Hong Kong, SAR	646	88.1	0.3	7.8	3.9	88.1	0.5	3.3	88.6	87.6
Hungary	405	60.5	0.0	23.1	16.4	60.5	6.8	9.6	56.2	64.2
Indonesia	738	34.2	0.4	47.4	18.0	34.2	10.2	7.8	33.8	34.7
Iran, Islamic Rep.	656	38.8	1.0	41.5	18.7	38.8	7.1	11.6	31.6	43.9
Israel	532	44.7	0.7	19.4	35.2	44.7	11.8	23.4	43.0	46.6
Italy	428	56.8	0.3	20.1	22.9	56.8	10.5	12.4	51.6	62.2
Japan	585	85.9	0.3	10.5	3.3	85.9	0.8	2.5	88.2	83.6
Jordan	625	42.2	1.7	39.6	16.5	42.2	5.1	11.4	46.5	38.2
Korea, Rep. of	766	86.6	0.1	9.5	3.8	86.6	1.0	2.8	87.2	85.9
Latvia (LSS)	364	62.5	0.0	19.5	18.0	62.5	8.9	9.1	63.0	61.9
Lithuania	298	58.5	1.2	19.2	21.1	58.5	10.9	10.2	63.4	53.7
Macedonia, Rep. of	497	38.8	0.6	17.1	43.6	38.8	18.6	25.0	35.2	42.0
Malaysia	696	67.5	0.1	19.2	13.1	67.5	4.3	8.8	72.6	62.0
Moldova	460	46.9	1.7	18.7	32.7	46.9	12.1	20.7	47.8	45.8
Morocco	649	21.5	0.7	29.2	48.6	21.5	26.6	22.0	18.7	23.5
Netherlands	378	68.2	2.9	25.6	3.4	68.2	0.4	3.0	64.5	72.2
New Zealand	451	43.1	2.1	44.4	10.3	43.1	3.0	7.3	45.2	41.3
Philippines	820	22.7	0.7	56.4	20.3	22.7	5.4	14.8	27.2	17.3
Romania	426	57.8	0.0	22.5	19.7	57.8	1.9	17.8	59.6	55.8
Russian Federation	547	63.4	0.4	12.9	23.2	63.4	11.1	12.2	66.7	59.5
Singapore	616	91.3	0.0	7.8	0.9	91.3	0.1	0.8	92.9	89.8
Slovak Republic	436	63.1	0.0	17.0	19.9	63.1	7.7	12.2	62.5	63.7
Slovenia	377	72.4	1.3	17.3	9.1	72.4	2.3	6.8	74.3	70.1
South Africa	972	7.1	1.8	65.4	25.8	7.1	14.1	11.6	6.8	7.3
Thailand	717	57.4	0.3	32.1	10.2	57.4	3.8	6.4	60.5	53.9
Tunisia	623	53.6	0.1	14.0	32.3	53.6	22.6	9.7	51.2	55.7
Turkey	974	44.0	0.1	30.6	25.4	44.0	4.6	20.8	42.6	45.0
United States	1124	59.9	0.6	30.5	8.9	59.9	1.3	7.6	62.2	57.6
International Avg.	.	55.8	0.7	25.6	17.9	55.8	7.2	10.7	56.2	55.2

V1 = % Scoring 1 or better V2 = % Scoring 2 or better V3 = % Scoring 3 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Measurement  
 Label: Area, side, and perimeter of 5 squares ( M022227B - S02B )  
 Item Type = EX Key = X

COUNTRY	N	10	11	70	71	72	79	99	V1	NOT REACH		1.GIRL	2.BOY
										ED	OMIT	% Right	% Right
Australia	497	29.8	0.5	4.7	16.1	4.5	25.9	18.6	30.3	2.4	16.2	28.4	32.2
Belgium (Flemish)	648	47.1	0.4	10.1	9.8	3.2	23.3	6.2	47.4	0.7	5.4	49.3	45.6
Bulgaria	412	38.3	0.0	0.4	2.4	1.3	23.5	34.0	38.3	9.8	24.3	34.5	41.6
Canada	1087	33.0	0.8	2.1	16.5	3.9	31.3	12.5	33.8	2.3	10.3	32.0	35.5
Chile	728	2.6	0.4	0.3	5.5	1.8	20.3	69.1	3.1	36.0	33.1	3.2	2.9
Chinese Taipei	726	66.8	1.7	0.6	6.1	3.0	18.5	3.3	68.5	0.4	2.9	65.2	71.8
Cyprus	392	31.4	2.1	2.5	6.2	2.0	29.5	26.3	33.5	3.9	22.4	35.4	31.4
Czech Republic	419	33.0	0.7	1.2	7.5	1.3	26.1	30.3	33.6	7.9	22.4	28.1	40.0
England	364	18.9	1.4	5.6	12.5	3.7	39.3	18.8	20.3	3.1	15.6	14.7	25.8
Finland	362	14.3	1.2	4.7	20.3	11.6	30.7	17.2	15.5	2.6	14.6	15.1	15.8
Hong Kong, SAR	646	79.9	0.8	0.4	5.3	1.5	6.8	5.3	80.7	0.7	4.6	78.8	82.4
Hungary	405	34.7	1.1	1.3	8.8	1.1	21.1	31.9	35.7	8.3	23.6	32.3	38.4
Indonesia	738	17.2	0.0	1.1	2.2	2.0	51.5	26.0	17.2	12.5	13.5	16.4	18.2
Iran, Islamic Rep.	656	11.2	3.5	2.0	15.1	0.8	39.5	27.8	14.8	8.0	19.8	13.6	15.6
Israel	532	11.9	0.6	2.1	8.5	2.4	25.8	48.8	12.5	12.9	35.8	11.4	13.7
Italy	428	47.2	1.1	1.4	4.0	0.5	15.5	30.3	48.3	11.7	18.6	45.2	51.6
Japan	585	47.5	0.2	2.2	6.3	12.5	19.1	12.3	47.6	1.0	11.3	45.5	49.8
Jordan	625	24.2	1.2	4.8	6.7	1.1	40.6	21.3	25.5	5.8	15.5	29.4	21.9
Korea, Rep. of	766	59.1	0.1	0.6	6.7	3.9	22.2	7.4	59.2	1.0	6.4	55.6	62.8
Latvia (LSS)	364	27.8	0.6	6.6	8.1	3.2	23.7	30.0	28.4	9.5	20.5	30.5	26.3
Lithuania	298	22.2	0.7	1.4	14.3	2.1	23.6	35.7	22.9	12.4	23.2	19.5	26.1
Macedonia, Rep. of	497	23.2	0.4	1.5	3.6	1.1	17.6	52.5	23.6	19.5	33.0	22.7	24.5
Malaysia	696	38.6	1.1	0.6	13.6	3.4	23.4	19.3	39.7	5.1	14.2	41.2	38.0
Moldova	460	31.8	0.2	4.0	4.5	0.8	21.5	37.1	32.0	13.2	23.9	33.1	30.8
Morocco	649	2.3	0.1	4.0	4.9	0.2	26.8	61.7	2.4	27.6	34.1	1.6	3.0
Netherlands	378	38.0	2.3	5.2	15.5	8.2	25.7	5.1	40.3	0.4	4.8	34.5	46.8
New Zealand	451	16.2	2.3	5.1	16.0	3.4	40.6	16.4	18.5	3.4	13.0	17.1	19.7
Philippines	820	3.1	0.7	1.3	11.1	3.2	54.6	26.0	3.8	5.7	20.3	4.9	2.6
Romania	426	43.7	1.1	0.0	1.3	1.5	21.7	30.7	44.8	1.9	28.8	49.1	40.3
Russian Federation	547	38.3	0.8	2.0	7.1	3.7	15.1	33.1	39.0	12.0	21.0	34.2	44.7
Singapore	616	77.5	0.5	0.2	4.9	2.7	12.0	2.2	78.0	0.3	1.8	78.9	77.2
Slovak Republic	436	40.0	1.2	1.8	4.5	1.4	22.1	28.9	41.3	8.1	20.7	40.4	42.2
Slovenia	377	42.4	1.3	5.3	11.7	1.7	15.1	22.5	43.7	2.9	19.6	45.4	41.6
South Africa	972	2.7	0.3	3.3	1.3	2.4	59.6	30.3	3.0	15.1	15.2	3.3	2.7
Thailand	717	19.5	0.2	6.4	16.9	4.9	38.9	13.1	19.8	4.6	8.5	20.8	18.6
Tunisia	622	18.4	0.0	3.4	14.4	0.5	23.9	39.4	18.4	23.1	16.3	16.8	19.8
Turkey	974	18.0	0.5	0.0	1.3	0.6	43.1	36.5	18.5	5.4	31.2	18.5	18.5
United States	1124	23.3	1.3	1.2	14.7	2.5	43.1	13.9	24.6	2.0	11.9	21.8	27.5
International Avg.	.	30.9	0.9	2.7	8.8	2.9	28.0	25.8	31.8	8.0	17.9	30.8	32.8

V1 = % Scoring 1 or better V2 = % Scoring 2 or better V3 = % Scoring 3 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Measurement  
 Label: Area, side, and perimeter of 5 squares ( M022227C - S02C )  
 Item Type = EX Key = X

COUNTRY	N	NOT REACHED									1.GIRL		2.BOY	
		10	11	12	70	71	72	79	99	V1	ED	OMIT	% Right	% Right
Australia	497	19.8	1.0	8.6	8.3	5.1	3.1	30.0	24.0	29.4	2.7	21.4	28.7	30.1
Belgium (Flemish)	648	25.4	2.1	3.6	15.3	1.9	1.6	41.5	8.6	31.1	1.1	7.6	32.4	29.9
Bulgaria	412	24.7	0.0	0.3	2.1	1.5	2.3	32.1	36.9	25.0	10.5	26.5	21.7	27.5
Canada	1087	20.3	1.0	11.8	7.0	2.8	5.8	35.5	15.8	33.2	2.6	13.2	35.8	30.6
Chile	728	1.0	0.0	0.6	2.2	0.3	2.5	22.4	71.2	1.5	38.1	33.1	1.8	1.2
Chinese Taipei	726	49.3	0.1	2.6	7.5	0.7	1.6	33.7	4.5	52.0	0.4	4.1	48.4	55.6
Cyprus	392	17.3	0.5	5.9	6.3	0.4	1.9	34.4	33.4	23.7	3.9	29.5	21.8	25.7
Czech Republic	419	20.5	0.3	5.5	3.7	1.1	2.1	29.6	37.1	26.3	9.9	27.2	21.5	31.9
England	364	13.6	2.6	8.5	2.8	3.4	3.7	41.9	23.5	24.7	3.7	19.8	22.1	27.8
Finland	362	8.5	2.9	11.8	8.4	0.8	6.0	40.6	21.0	23.2	3.2	17.8	28.1	18.7
Hong Kong, SAR	646	59.5	0.3	4.5	10.9	0.2	0.7	17.7	6.3	64.3	0.7	5.6	63.7	64.8
Hungary	405	20.8	0.2	1.5	0.7	0.5	1.1	36.7	38.5	22.5	10.3	28.1	21.0	23.6
Indonesia	737	5.1	0.2	0.0	1.8	0.3	2.7	61.2	28.6	5.4	15.7	12.9	5.1	5.7
Iran, Islamic Rep.	656	1.5	0.0	2.2	7.2	0.7	8.1	42.0	38.3	3.7	9.9	28.4	2.8	4.4
Israel	532	6.6	0.8	3.2	5.8	0.8	4.0	23.9	55.0	10.6	14.4	40.6	7.8	13.5
Italy	428	26.2	0.5	2.3	10.1	0.0	0.0	29.7	31.2	29.0	12.8	18.4	25.9	32.2
Japan	585	36.3	0.4	11.1	10.9	1.1	0.8	24.3	15.0	47.8	1.2	13.8	48.7	47.0
Jordan	625	9.0	0.2	0.5	5.0	1.3	7.5	52.6	23.9	9.7	6.3	17.6	10.8	8.7
Korea, Rep. of	766	39.8	0.2	7.4	7.7	1.3	0.3	33.5	9.8	47.4	1.4	8.5	46.8	48.0
Latvia (LSS)	364	15.6	2.5	3.4	8.7	0.8	0.2	33.0	35.8	21.5	10.8	25.0	20.6	22.5
Lithuania	298	8.0	0.5	0.6	10.3	1.1	1.8	36.6	41.0	9.1	14.0	27.0	6.6	11.6
Macedonia, Rep. of	497	7.3	0.2	0.6	3.1	0.0	2.3	28.0	58.5	8.1	21.2	37.3	6.5	9.5
Malaysia	696	31.4	0.0	11.4	3.8	2.8	4.9	23.9	21.9	42.8	6.2	15.6	43.4	42.2
Moldova	460	19.8	1.1	0.9	5.4	0.9	0.5	27.5	43.9	21.8	14.0	29.9	21.6	22.1
Morocco	649	0.3	0.6	0.3	0.8	0.6	3.3	28.5	65.7	1.2	31.9	33.9	0.5	1.7
Netherlands	378	27.8	1.6	9.5	9.8	3.2	7.0	34.2	6.8	38.9	0.4	6.4	33.1	45.4
New Zealand	451	11.9	3.2	9.2	5.0	2.4	5.3	40.1	22.9	24.3	3.8	19.1	24.7	23.8
Philippines	820	0.7	0.0	0.9	3.4	0.5	11.1	53.1	30.3	1.6	6.3	24.0	1.7	1.5
Romania	426	15.9	0.0	0.2	7.4	0.3	0.2	41.5	34.5	16.1	3.2	31.3	15.5	16.8
Russian Federation	547	15.1	0.2	1.1	12.2	0.0	1.4	31.0	39.0	16.4	14.9	24.2	13.6	19.6
Singapore	616	64.6	0.3	5.2	5.6	2.3	0.3	19.1	2.6	70.0	0.5	2.1	68.2	71.8
Slovak Republic	436	26.4	2.7	1.1	7.2	2.3	0.8	25.7	33.8	30.2	9.1	24.7	24.7	36.2
Slovenia	377	30.2	2.0	3.0	7.5	1.9	1.4	25.1	28.8	35.2	3.6	25.2	30.9	40.3
South Africa	972	1.2	0.4	1.0	1.2	0.5	10.2	53.9	31.6	2.5	15.9	15.7	1.9	3.3
Thailand	717	5.1	1.7	2.2	19.3	0.5	11.0	45.3	15.0	8.9	4.9	10.1	7.6	10.4
Tunisia	622	10.2	0.3	4.2	7.4	1.0	1.1	28.1	47.6	14.8	24.9	22.7	13.4	16.0
Turkey	974	5.0	0.0	0.2	1.3	0.0	3.3	47.2	43.0	5.2	6.0	37.0	4.1	5.9
United States	1124	11.8	0.2	7.5	6.5	1.8	7.7	47.3	17.1	19.5	2.5	14.6	16.1	23.0
International Avg.	.	18.8	0.8	4.1	6.6	1.2	3.4	35.1	30.1	23.7	9.0	21.0	22.4	25.0

V1 = % Scoring 1 or better V2 = % Scoring 2 or better V3 = % Scoring 3 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Fractions and Number Sense  
 Label: Fuel remaining in tank at end of trip ( M022127 - S03 )  
 Item Type = MC Key = A

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	497	28.5	20.1	21.9	24.9	4.6	28.5	0.0	3.8	0.8	29.6	27.4
Belgium (Flemish)	648	35.0	17.7	14.5	29.1	3.6	35.0	0.1	1.2	2.3	37.0	33.0
Bulgaria	412	32.7	19.0	12.9	21.5	13.9	32.7	0.2	11.2	2.5	30.1	34.6
Canada	1087	28.4	19.5	21.1	26.7	4.2	28.4	0.0	3.1	1.1	28.5	28.4
Chile	728	16.3	13.0	15.9	14.2	40.6	16.3	0.0	38.4	2.2	17.5	14.9
Chinese Taipei	725	52.6	10.9	10.8	24.6	1.1	52.6	0.0	0.4	0.7	50.1	55.1
Cyprus	388	18.9	20.4	23.5	32.0	5.2	18.9	0.1	4.9	0.2	15.6	22.4
Czech Republic	419	31.4	16.5	14.5	23.4	14.3	31.4	0.0	10.9	3.3	28.4	34.8
England	364	25.9	21.2	23.6	24.6	4.8	25.9	0.0	4.0	0.8	28.7	22.9
Finland	362	28.1	18.9	17.6	29.3	6.2	28.1	0.0	3.7	2.4	27.4	28.7
Hong Kong, SAR	647	51.4	14.8	10.9	22.0	0.9	51.4	0.0	0.7	0.2	52.8	50.2
Hungary	405	34.3	16.1	12.8	25.6	11.2	34.3	0.0	10.8	0.4	34.6	33.7
Indonesia	738	23.2	16.8	18.3	20.5	21.2	23.2	0.0	16.9	4.2	25.2	20.7
Iran, Islamic Rep.	656	18.1	18.7	26.3	24.2	12.7	18.1	0.0	10.9	1.8	18.0	18.1
Israel	532	16.3	18.1	26.0	23.7	15.9	16.3	0.0	14.8	1.1	17.2	15.4
Italy	428	27.9	18.8	17.5	19.8	15.9	27.9	0.0	12.8	3.2	28.1	27.7
Japan	585	47.2	11.3	12.1	28.0	1.4	47.2	0.0	1.2	0.1	48.4	46.0
Jordan	625	23.4	24.8	20.3	23.4	8.1	23.4	0.9	6.4	0.8	28.8	18.6
Korea, Rep. of	766	42.2	12.9	13.0	30.1	1.8	42.2	0.0	1.5	0.3	45.4	39.0
Latvia (LSS)	364	29.0	15.4	18.8	23.7	13.2	29.0	0.6	11.2	1.4	27.5	30.3
Lithuania	298	35.8	13.4	10.0	20.7	20.1	35.8	0.0	16.1	3.9	34.8	36.7
Macedonia, Rep. of	497	24.6	17.3	15.7	16.9	25.6	24.6	0.3	22.9	2.4	25.1	24.1
Malaysia	696	42.6	16.1	17.4	15.7	8.2	42.6	0.0	6.6	1.6	42.5	42.7
Moldova	460	36.7	12.3	15.9	19.2	15.9	36.7	0.0	14.2	1.7	39.4	33.6
Morocco	565	17.4	16.4	12.5	11.7	42.0	17.4	0.0	38.3	3.6	18.9	16.2
Netherlands	378	33.7	20.5	20.1	24.9	0.8	33.7	0.1	0.4	0.3	31.5	36.2
New Zealand	451	29.6	24.5	20.5	20.4	5.0	29.6	0.0	4.5	0.5	32.5	27.0
Philippines	820	16.8	27.5	28.2	20.0	7.5	16.8	0.1	6.6	0.8	18.0	15.3
Romania	422	35.2	16.1	18.7	24.3	5.7	35.2	0.0	3.5	2.2	36.0	34.3
Russian Federation	547	36.9	10.4	11.3	22.3	19.0	36.9	0.3	16.4	2.3	34.9	39.3
Singapore	616	63.4	11.1	7.5	16.9	1.1	63.4	0.0	0.5	0.6	64.7	62.3
Slovak Republic	436	40.9	15.2	11.2	20.1	12.6	40.9	0.0	9.7	2.9	37.5	44.7
Slovenia	377	31.3	20.3	14.1	28.5	5.8	31.3	0.0	4.7	1.1	32.3	30.0
South Africa	972	20.1	16.6	21.9	22.5	18.8	20.1	0.1	16.2	2.5	16.7	24.0
Thailand	717	19.8	17.3	26.3	30.2	6.3	19.8	0.0	5.3	1.0	23.6	15.5
Tunisia	629	15.5	15.9	22.8	17.7	28.1	15.5	0.3	25.4	2.4	16.4	14.7
Turkey	974	20.0	16.4	27.1	28.1	8.4	20.0	0.1	7.1	1.1	19.1	20.6
United States	1124	27.6	23.6	23.5	21.9	3.5	27.6	0.2	2.7	0.6	26.5	28.6
International Avg.	.	30.5	17.3	17.8	23.0	11.4	30.5	0.1	9.7	1.6	30.8	30.2

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Algebra  
 Label: Total club members: boys and girls ( M022228 - T01 )  
 Item Type = EX Key = X

COUNTRY	N	20	21	29	10	11	12	13	19	70	71	72	73	79	99	V1	V2	NOT REACH		1.GIRL	2.BOY
																		ED	OMIT	% Right	% Right
Australia	1002	26.5	7.1	3.6	2.4	0.8	1.3	1.3	1.7	20.6	4.9	1.7	1.0	18.4	8.9	44.5	37.2	0.8	8.1	38.1	36.3
Belgium (Flemish)	1305	43.9	17.5	0.3	1.3	1.2	0.2	0.4	0.7	13.1	1.8	0.6	1.4	13.2	4.3	65.6	61.7	0.5	3.8	62.0	61.4
Bulgaria	815	14.1	26.0	1.3	2.2	0.0	1.3	1.0	2.7	6.9	6.1	0.8	0.2	10.4	26.9	48.6	41.4	3.0	24.0	43.9	38.8
Canada	2202	28.9	11.1	1.9	3.1	0.6	0.9	0.7	0.2	17.7	7.1	2.3	0.8	19.3	5.3	47.5	42.0	0.4	4.9	45.1	38.8
Chile	1476	7.0	0.9	0.3	0.6	0.0	1.2	0.1	0.0	11.6	10.3	0.8	0.3	30.7	36.3	10.0	8.2	12.5	23.8	8.5	7.9
Chinese Taipei	1444	18.2	47.5	0.3	0.9	0.2	0.5	0.8	0.2	15.6	4.3	0.3	1.2	6.5	3.6	68.6	66.0	0.2	3.3	63.1	68.8
Cyprus	781	9.9	23.6	0.1	1.0	0.4	0.6	6.8	0.2	6.6	5.8	0.5	2.7	17.7	24.0	42.6	33.6	0.7	23.4	34.2	33.0
Czech Republic	862	10.3	33.9	1.5	2.2	0.9	0.8	2.4	0.9	8.4	2.7	0.4	2.4	20.4	12.7	53.0	45.7	1.4	11.3	46.9	44.3
England	738	32.0	1.1	1.2	2.1	0.6	0.6	0.1	1.5	21.2	5.5	1.7	0.0	24.0	8.4	39.3	34.4	2.1	6.4	31.1	37.2
Finland	729	28.0	3.2	0.7	1.5	0.7	2.8	0.6	1.5	29.4	2.0	2.1	0.0	21.9	5.6	39.0	32.0	0.5	5.1	34.9	29.1
Hong Kong, SAR	1299	9.7	52.1	0.2	3.7	1.0	0.5	1.3	0.3	12.5	0.5	0.6	2.5	8.9	6.3	68.7	62.0	0.4	5.8	64.3	59.8
Hungary	804	10.2	34.5	1.2	3.4	0.2	1.3	2.0	1.2	8.7	5.5	0.6	1.0	13.1	17.0	54.1	45.9	2.5	14.5	47.6	44.2
Indonesia	1474	3.5	6.6	3.4	0.5	0.3	0.5	0.0	0.4	9.4	32.5	0.8	0.3	30.6	11.1	15.3	13.5	0.9	10.2	13.9	13.2
Iran, Islamic Rep.	1315	12.4	1.5	0.1	1.8	0.8	0.5	0.2	0.8	13.4	8.6	1.5	1.0	33.0	24.5	18.1	14.1	1.9	22.6	10.4	16.6
Israel	1054	10.9	18.3	1.1	1.2	0.5	1.4	2.4	1.0	9.5	5.5	0.6	1.5	18.4	27.6	36.8	30.3	3.5	24.1	28.6	31.9
Italy	847	20.4	1.6	2.4	1.1	0.7	1.0	0.9	1.2	11.9	10.6	0.7	1.0	20.6	25.8	29.4	24.4	2.0	23.8	23.3	25.5
Japan	1173	29.6	22.9	0.8	0.6	0.6	2.0	1.2	0.3	18.3	0.8	0.4	0.8	11.3	10.2	58.0	53.3	0.5	9.8	55.0	51.6
Jordan	1264	6.0	5.1	1.5	1.7	0.4	0.7	1.1	0.4	9.6	10.5	0.9	1.6	40.2	20.2	17.0	12.7	0.7	19.5	13.3	12.2
Korea, Rep. of	1530	22.9	36.4	1.8	1.2	2.1	2.0	0.1	0.6	13.9	1.0	0.3	0.9	10.0	6.7	67.1	61.1	0.2	6.5	59.9	62.2
Latvia (LSS)	720	22.9	8.6	0.4	0.4	0.5	1.1	1.7	0.2	11.7	8.3	1.4	0.3	18.7	23.8	35.8	31.9	2.8	21.0	33.5	30.1
Lithuania	596	8.0	14.1	0.4	1.2	0.2	2.1	0.3	0.0	15.1	8.0	1.5	0.6	25.8	22.7	26.3	22.6	2.2	20.6	26.9	17.7
Macedonia, Rep. of	997	9.5	4.4	1.7	2.9	1.5	0.9	0.7	1.3	5.4	3.6	0.6	2.9	20.7	44.0	22.8	15.6	4.4	39.6	17.0	14.2
Malaysia	1395	27.7	3.6	0.2	1.3	0.5	0.3	0.0	0.3	23.0	8.7	1.2	0.5	23.2	9.5	33.9	31.6	1.1	8.4	32.8	30.1
Moldova	919	9.7	15.9	0.0	5.9	1.5	1.8	0.6	0.1	5.3	6.8	0.9	3.5	20.7	27.2	35.6	25.6	4.1	23.1	24.6	26.9
Morocco	1342	3.0	1.1	0.8	1.4	0.1	0.1	0.2	0.3	9.8	9.0	0.8	0.2	40.6	32.8	6.8	4.8	9.7	23.1	3.8	5.5
Netherlands	747	34.9	2.9	0.7	3.1	1.0	1.2	0.0	1.0	25.6	3.2	1.1	2.8	17.2	5.4	44.7	38.5	0.1	5.3	40.9	35.6
New Zealand	898	26.9	1.3	3.5	2.3	1.4	0.5	0.0	2.3	21.1	6.5	0.9	0.2	24.4	8.8	38.1	31.6	0.7	8.1	35.2	28.0
Philippines	1633	7.1	0.7	0.8	1.6	0.4	1.2	0.3	0.4	9.5	15.7	0.5	0.0	41.0	21.0	12.3	8.6	1.4	19.7	8.3	8.9
Romania	854	17.5	20.0	0.5	1.3	0.8	1.2	1.6	0.9	6.8	5.4	0.5	1.0	14.3	28.4	43.6	38.0	2.3	26.1	43.8	32.7
Russian Federation	1096	6.7	32.2	1.3	1.8	0.3	0.8	1.3	0.4	5.8	7.8	0.6	1.1	15.6	24.4	44.8	40.2	5.1	19.2	38.9	41.7
Singapore	1240	52.3	19.3	0.2	2.4	0.4	0.0	2.1	0.2	11.3	2.6	0.2	0.5	6.4	2.1	77.0	71.9	0.0	2.0	75.1	68.8
Slovak Republic	865	17.1	33.8	2.4	2.6	0.5	0.4	2.8	0.6	2.8	4.1	1.2	1.6	17.0	13.0	60.4	53.4	1.5	11.5	56.8	49.3
Slovenia	772	16.6	19.8	0.8	1.6	0.8	1.2	3.4	0.6	11.2	9.6	0.6	3.0	20.0	10.9	44.7	37.1	0.4	10.5	40.0	33.7
South Africa	2003	3.5	0.7	0.2	1.1	0.1	0.2	0.1	0.0	3.9	12.5	0.3	0.1	40.0	37.3	5.9	4.4	4.8	32.6	2.8	6.1
Thailand	1430	6.4	8.6	4.5	1.7	0.3	1.9	0.3	0.5	14.1	9.2	0.3	10.7	27.4	14.1	24.2	19.5	0.9	13.3	20.4	18.5
Tunisia	1254	5.0	5.0	0.0	1.1	0.0	1.5	0.3	0.7	28.9	12.9	2.5	0.9	16.6	24.5	13.6	10.0	6.7	17.8	7.1	12.8
Turkey	1950	15.9	3.7	0.1	1.5	0.4	0.9	0.2	2.7	14.3	7.7	1.5	0.7	27.9	22.6	25.3	19.7	1.3	21.3	17.6	21.1
United States	2240	18.5	6.3	4.1	1.8	0.5	3.1	0.7	0.5	19.0	10.0	1.5	0.6	26.8	6.7	35.5	28.9	0.7	6.0	28.6	29.2
International Avg.	.	17.2	14.6	1.2	1.8	0.6	1.1	1.0	0.8	13.2	7.3	0.9	1.4	21.4	17.5	38.3	33.0	2.2	15.3	33.6	32.2

V1 = % Scoring 1 or better V2 = % Scoring 2 or better V3 = % Scoring 3 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Fractions and Number Sense  
 Label: Number/fraction of 2 types of boxes ( M022231A - T02A )  
 Item Type = EX Key = X

COUNTRY	N	10	79	99	V1	NOT REACHED		1.GIRL % Right	2.BOY % Right
						ED	OMIT		
Australia	1002	32.0	52.5	15.6	32.0	1.9	13.7	31.0	32.9
Belgium (Flemish)	1305	43.1	46.9	10.0	43.1	0.5	9.5	41.7	44.4
Bulgaria	816	32.9	29.1	38.0	32.9	5.9	32.1	33.1	32.5
Canada	2202	30.9	58.6	10.5	30.9	0.7	9.8	28.7	33.2
Chile	1476	4.1	47.9	48.0	4.1	17.1	30.8	3.4	5.0
Chinese Taipei	1444	59.9	36.7	3.4	59.9	0.2	3.2	58.9	60.8
Cyprus	779	14.6	51.9	33.4	14.6	2.3	31.1	11.3	17.9
Czech Republic	862	21.7	42.8	35.5	21.7	2.1	33.4	16.5	27.8
England	738	24.2	60.5	15.2	24.2	2.9	12.3	22.3	25.7
Finland	729	32.3	53.1	14.6	32.3	0.6	14.0	30.0	34.5
Hong Kong, SAR	1301	57.8	33.5	8.6	57.8	0.8	7.9	59.0	56.6
Hungary	804	31.2	37.5	31.2	31.2	4.9	26.3	24.7	39.0
Indonesia	1474	9.6	71.6	18.8	9.6	2.1	16.7	10.2	8.9
Iran, Islamic Rep.	1315	7.3	65.5	27.2	7.3	3.9	23.3	3.5	9.9
Israel	1054	18.2	33.5	48.3	18.2	6.2	42.1	13.9	22.5
Italy	847	17.6	45.5	36.9	17.6	5.1	31.8	14.7	20.6
Japan	1173	58.0	33.5	8.5	58.0	0.5	8.0	58.1	57.9
Jordan	1262	11.6	72.1	16.3	11.6	2.0	14.3	12.7	10.6
Korea, Rep. of	1530	59.2	35.3	5.5	59.2	0.7	4.8	57.3	61.0
Latvia (LSS)	720	29.1	35.0	35.9	29.1	5.0	30.9	29.3	28.9
Lithuania	596	21.5	39.9	38.5	21.5	4.1	34.4	22.4	20.6
Macedonia, Rep. of	996	7.7	29.0	63.2	7.7	10.6	52.6	6.0	9.3
Malaysia	1392	32.6	52.9	14.5	32.6	1.5	13.0	33.9	31.2
Moldova	918	23.9	38.3	37.8	23.9	7.1	30.8	23.4	24.4
Morocco	1343	0.9	40.7	58.3	0.9	13.7	44.6	0.8	1.0
Netherlands	747	31.6	59.5	8.8	31.6	0.1	8.7	26.6	37.6
New Zealand	898	23.7	63.8	12.5	23.7	1.0	11.5	24.5	22.9
Philippines	1633	2.0	79.1	18.8	2.0	3.8	15.0	2.6	1.4
Romania	852	22.1	37.5	40.3	22.1	4.8	35.5	21.3	22.9
Russian Federation	1096	29.0	26.7	44.3	29.0	9.6	34.7	22.4	36.1
Singapore	1240	62.2	33.3	4.5	62.2	0.0	4.5	60.1	64.2
Slovak Republic	864	24.8	38.0	37.2	24.8	2.5	34.7	24.4	25.3
Slovenia	772	30.7	46.7	22.6	30.7	0.8	21.8	28.1	33.8
South Africa	2003	2.0	81.7	16.3	2.0	6.7	9.6	1.8	2.2
Thailand	1430	19.2	68.6	12.2	19.2	2.2	10.0	19.1	19.3
Tunisia	1251	8.3	50.3	41.4	8.3	10.3	31.1	7.7	8.9
Turkey	1951	8.8	53.0	38.3	8.8	3.8	34.4	6.9	10.0
United States	2240	25.7	64.0	10.3	25.7	1.4	8.9	25.2	26.2
International Avg.	.	25.6	48.6	25.8	25.6	3.9	21.9	24.2	27.0

V1 = % Scoring 1 or better V2 = % Scoring 2 or better V3 = % Scoring 3 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Fractions and Number Sense  
 Label: Number/fraction of 2 types of boxes ( M022231B - T02B )  
 Item Type = EX Key = X

COUNTRY	N	NOT REACH									1.GIRL		2.BOY	
		10	11	19	70	71	72	79	99	V1	ED	OMIT	% Right	% Right
Australia	1002	9.2	2.7	0.0	14.1	5.2	9.4	35.8	23.5	11.9	4.5	19.1	10.2	13.6
Belgium (Flemish)	1305	8.6	1.7	0.1	4.2	1.1	39.2	27.7	17.3	10.4	1.4	16.0	11.4	9.4
Bulgaria	815	10.6	6.2	1.0	2.0	2.3	9.9	17.5	50.6	17.8	8.7	41.9	17.1	18.6
Canada	2202	9.1	4.5	0.1	17.8	3.8	10.7	36.7	17.3	13.7	1.8	15.4	10.9	16.6
Chile	1476	0.9	0.6	0.0	3.1	2.7	12.0	19.3	61.3	1.6	23.7	37.6	1.2	2.0
Chinese Taipei	1444	40.0	2.5	0.1	5.3	3.8	3.6	38.6	6.1	42.6	0.2	5.9	42.0	43.1
Cyprus	779	4.7	2.1	0.1	4.8	0.6	4.6	34.9	48.3	6.8	3.7	44.6	7.1	6.6
Czech Republic	862	5.1	2.6	0.0	5.2	2.3	2.8	30.4	51.6	7.7	5.5	46.1	5.2	10.7
England	738	6.6	2.9	0.0	14.3	4.1	9.5	41.3	21.4	9.4	4.5	16.9	7.5	11.3
Finland	729	4.2	3.4	0.3	12.1	2.3	34.2	23.5	20.0	7.9	2.0	18.0	5.9	9.9
Hong Kong, SAR	1301	36.1	6.6	0.1	3.7	2.3	2.0	35.0	14.2	42.8	1.4	12.8	44.1	41.6
Hungary	804	7.1	5.0	0.4	6.8	3.2	0.2	32.8	44.4	12.5	8.2	36.2	10.0	15.1
Indonesia	1474	2.1	0.1	0.0	3.5	2.9	13.3	48.5	29.5	2.3	4.0	25.4	2.8	1.7
Iran, Islamic Rep.	1315	1.6	0.8	0.0	5.7	3.2	24.5	25.2	38.9	2.4	6.6	32.3	2.1	2.6
Israel	1054	2.6	2.0	0.2	2.9	0.6	16.5	16.8	58.3	4.8	9.6	48.8	4.2	5.4
Italy	847	4.0	2.2	0.1	5.5	3.5	10.0	27.6	47.1	6.3	6.9	40.2	5.4	7.2
Japan	1173	10.5	14.0	7.2	1.1	0.9	6.8	37.9	21.7	31.6	0.9	20.7	30.2	33.0
Jordan	1262	0.7	2.0	0.2	4.6	12.1	3.6	56.5	20.3	2.9	2.7	17.5	2.4	3.4
Korea, Rep. of	1530	10.8	14.2	5.1	1.6	2.0	7.3	48.6	10.4	30.1	1.2	9.2	32.7	27.6
Latvia (LSS)	720	7.1	0.5	0.1	7.0	2.4	7.4	33.3	42.2	7.7	8.6	33.6	8.6	6.7
Lithuania	596	1.8	1.5	0.9	1.6	0.1	38.0	10.3	45.8	4.1	7.0	38.8	3.6	4.8
Macedonia, Rep. of	996	2.0	0.1	0.1	2.6	0.8	1.2	17.9	75.3	2.2	13.5	61.7	1.5	2.8
Malaysia	1393	11.9	3.6	0.1	3.4	7.7	4.0	41.3	28.0	15.6	3.1	24.9	15.8	15.3
Moldova	918	7.8	2.3	0.0	1.5	1.3	16.6	26.4	44.1	10.1	9.3	34.7	9.0	11.5
Morocco	1343	0.0	0.0	0.0	0.4	1.1	1.2	30.0	67.3	0.0	20.5	46.8	0.0	0.1
Netherlands	747	9.7	3.7	0.0	11.6	1.7	29.3	31.2	12.9	13.4	0.9	11.9	11.7	15.4
New Zealand	898	4.2	5.8	0.1	14.6	3.0	13.4	40.5	18.4	10.2	2.2	16.1	9.6	10.8
Philippines	1633	0.5	0.2	0.0	5.0	9.1	25.8	31.0	28.3	0.7	5.3	23.0	0.9	0.5
Romania	852	8.3	2.0	0.1	7.8	1.6	5.5	29.2	45.4	10.5	6.8	38.7	10.0	10.8
Russian Federation	1096	10.5	4.5	0.0	5.6	0.3	12.7	11.5	54.8	15.0	13.8	41.0	13.2	16.9
Singapore	1240	40.5	6.0	1.5	8.0	5.3	2.1	27.6	9.0	48.1	0.6	8.4	48.7	47.6
Slovak Republic	864	4.1	0.7	5.7	1.5	0.6	26.7	11.7	48.9	10.5	5.7	43.1	10.4	10.7
Slovenia	772	1.5	7.5	1.9	1.3	0.6	31.5	23.6	32.0	10.9	4.2	27.8	10.8	11.1
South Africa	2003	0.7	0.0	0.0	4.7	2.9	39.1	30.3	22.3	0.7	8.2	14.1	0.7	0.7
Thailand	1430	6.1	4.1	0.1	11.0	8.6	11.0	43.5	15.6	10.3	4.0	11.6	10.6	9.9
Tunisia	1251	1.0	0.4	0.1	4.9	2.9	0.2	41.6	48.8	1.5	15.1	33.7	1.1	1.9
Turkey	1951	0.6	0.9	0.1	1.4	1.5	3.0	41.9	50.7	1.5	7.8	42.9	1.1	1.8
United States	2240	8.0	2.7	0.0	16.4	6.1	13.0	38.8	15.0	10.7	3.1	11.9	9.8	11.5
International Avg.	.	7.9	3.2	0.7	6.0	3.1	13.2	31.5	34.4	11.8	6.3	28.1	11.3	12.4

V1 = % Scoring 1 or better V2 = % Scoring 2 or better V3 = % Scoring 3 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent



Mathematics: Measurement  
 Label: Area of rectangle inside parallelogram ( M022244 - T03 )  
 Item Type = SA Key = X

COUNTRY	N	10	70	71	77	79	99	V1	NOT REACH		1.GIRL % Right	2.BOY % Right
									ED	OMIT		
Australia	1002	54.7	7.5	2.4	0.0	25.9	9.5	54.7	4.6	4.9	53.9	55.5
Belgium (Flemish)	1305	64.7	4.8	3.3	0.0	23.7	3.5	64.7	1.9	1.6	62.4	66.9
Bulgaria	815	52.3	2.9	4.1	0.0	19.8	20.9	52.3	9.1	11.9	49.9	54.4
Canada	2202	57.6	7.4	3.7	0.0	25.6	5.7	57.6	2.3	3.4	54.9	60.6
Chile	1476	7.4	4.3	1.5	0.0	41.2	45.7	7.4	25.9	19.8	5.3	9.6
Chinese Taipei	1444	74.5	3.3	0.4	0.0	18.9	2.9	74.5	0.2	2.6	72.1	76.9
Cyprus	779	41.1	9.6	1.5	0.0	30.8	17.1	41.1	3.9	13.2	39.9	42.2
Czech Republic	862	46.3	8.2	5.9	0.0	23.1	16.5	46.3	5.7	10.8	42.6	50.8
England	738	47.6	7.7	4.3	0.0	30.2	10.2	47.6	4.8	5.4	43.9	50.9
Finland	729	57.0	7.1	3.7	0.0	24.0	8.2	57.0	2.2	6.0	55.5	58.4
Hong Kong, SAR	1302	78.4	4.2	0.8	0.0	12.7	3.9	78.4	1.5	2.4	79.2	77.5
Hungary	804	45.3	6.6	4.8	0.0	23.2	20.1	45.3	9.2	11.0	43.5	47.4
Indonesia	1472	19.9	16.5	1.1	0.0	49.9	12.6	19.9	4.8	7.8	18.6	21.3
Iran, Islamic Rep.	1315	25.3	15.4	2.3	0.0	37.6	19.5	25.3	7.8	11.7	22.1	27.5
Israel	1054	28.4	5.7	2.6	0.0	31.0	32.3	28.4	10.5	21.8	25.8	30.9
Italy	847	48.4	11.5	0.6	0.0	21.6	17.8	48.4	7.4	10.4	44.9	52.1
Japan	1173	80.1	4.4	0.2	0.0	10.7	4.5	80.1	1.5	3.0	82.8	77.4
Jordan	1264	26.4	8.9	1.3	0.0	50.2	13.1	26.4	3.0	10.1	27.0	25.9
Korea, Rep. of	1530	78.1	1.8	1.5	0.0	14.8	3.9	78.1	1.3	2.6	78.4	77.7
Latvia (LSS)	720	44.2	2.1	5.2	0.0	31.2	17.3	44.2	8.8	8.5	42.3	46.3
Lithuania	594	35.5	7.4	5.3	0.0	28.2	23.6	35.5	7.7	15.9	35.1	35.8
Macedonia, Rep. of	996	25.0	3.7	3.3	0.0	22.9	45.1	25.0	14.1	31.0	24.6	25.2
Malaysia	1393	56.4	5.4	4.2	0.0	24.3	9.8	56.4	3.9	5.8	57.6	55.0
Moldova	918	38.5	2.9	3.5	0.0	27.8	27.4	38.5	9.8	17.6	37.4	39.8
Morocco	1337	8.2	3.7	1.9	0.0	42.0	44.2	8.2	22.2	22.0	6.4	9.4
Netherlands	747	54.9	15.9	0.8	0.0	26.5	2.0	54.9	1.1	0.9	53.6	56.1
New Zealand	899	41.4	5.5	5.3	2.0	38.3	7.6	41.4	2.4	5.2	42.2	40.5
Philippines	1633	6.4	4.4	1.0	0.0	70.2	17.9	6.4	5.7	12.2	6.4	6.3
Romania	849	43.0	3.9	3.0	0.0	26.1	24.0	43.0	7.0	16.9	44.9	41.3
Russian Federation	1096	48.6	4.1	3.7	0.0	20.2	23.5	48.6	14.3	9.2	44.2	53.3
Singapore	1240	82.7	5.4	0.4	0.0	9.7	1.9	82.7	0.7	1.1	80.8	84.4
Slovak Republic	865	57.2	5.9	3.8	0.0	16.1	16.9	57.2	5.9	11.0	55.6	59.1
Slovenia	772	49.2	8.2	3.6	0.0	22.8	16.2	49.2	4.8	11.5	47.3	51.3
South Africa	2003	3.2	2.5	1.5	0.0	75.3	17.4	3.2	9.1	8.3	2.3	4.2
Thailand	1430	33.2	9.3	7.8	0.0	42.0	7.7	33.2	4.3	3.4	32.1	34.5
Tunisia	1252	38.4	12.7	3.7	0.0	22.3	22.9	38.4	15.4	7.5	38.1	38.6
Turkey	1951	20.1	5.4	1.8	0.0	42.7	30.1	20.1	8.3	21.8	18.8	21.0
United States	2240	33.5	8.7	2.8	0.0	46.2	8.8	33.5	3.5	5.3	30.4	36.6
International Avg.	.	43.5	6.7	2.9	0.1	30.3	16.6	43.5	6.8	9.9	42.2	44.8

V1 = % Scoring 1 or better V2 = % Scoring 2 or better V3 = % Scoring 3 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Fractions and Number Sense  
 Label: Height of stack from paper thickness ( M022207 - T04 )  
 Item Type = MC Key = C

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	1002	5.2	12.5	59.4	15.9	7.0	59.4	0.1	5.5	1.4	56.2	62.6
Belgium (Flemish)	1305	6.1	6.3	74.7	10.3	2.6	74.7	0.1	1.9	0.5	71.1	78.2
Bulgaria	813	12.7	10.9	54.3	10.8	11.4	54.3	0.0	9.2	2.2	55.3	53.2
Canada	1588	7.5	12.5	67.2	9.6	3.2	67.2	0.0	2.5	0.6	64.1	70.4
Chile	1476	19.8	12.1	23.1	14.6	30.4	23.1	0.0	27.0	3.3	20.1	26.5
Chinese Taipei	1443	7.1	8.1	75.2	9.0	0.7	75.2	0.0	0.6	0.1	74.8	75.5
Cyprus	774	16.3	18.3	44.4	16.3	4.7	44.4	0.2	4.0	0.5	41.4	47.2
Czech Republic	862	7.3	8.3	70.2	6.8	7.3	70.2	0.0	5.9	1.4	64.8	76.7
England	738	8.5	12.0	53.1	20.9	5.5	53.1	0.0	4.8	0.8	46.0	59.6
Finland	729	6.0	7.1	71.5	12.6	2.8	71.5	0.0	2.3	0.5	67.8	75.2
Hong Kong, SAR	1302	4.4	7.0	78.2	8.5	1.9	78.2	0.0	1.7	0.2	78.4	78.0
Hungary	804	7.7	6.5	64.7	10.9	10.2	64.7	0.0	9.7	0.5	66.1	63.4
Indonesia	1473	27.9	15.1	32.5	16.7	7.7	32.5	0.0	5.8	2.0	33.3	31.7
Iran, Islamic Rep.	1315	26.4	13.1	33.5	16.2	10.9	33.5	0.0	8.3	2.6	29.4	36.3
Israel	1054	9.5	15.9	46.6	15.2	12.7	46.6	0.3	11.6	0.8	43.2	49.8
Italy	847	16.2	11.4	48.2	15.1	9.0	48.2	0.0	7.4	1.6	44.0	52.5
Japan	1173	3.3	5.6	82.5	6.9	1.6	82.5	0.0	1.6	0.0	82.7	82.4
Jordan	1264	22.6	18.6	36.1	17.5	5.1	36.1	0.5	3.2	1.4	34.9	37.2
Korea, Rep. of	1527	7.2	6.4	75.0	10.0	1.4	75.0	0.0	1.4	0.0	73.7	76.4
Latvia (LSS)	720	12.5	8.7	59.0	10.0	9.7	59.0	0.3	9.0	0.4	57.1	61.2
Lithuania	596	11.5	8.5	54.4	11.0	14.6	54.4	0.0	8.1	6.5	52.7	56.3
Macedonia, Rep. of	996	22.4	14.9	32.5	13.1	17.1	32.5	0.1	14.3	2.7	31.2	33.8
Malaysia	1395	10.5	8.3	67.4	8.3	5.6	67.4	0.1	4.2	1.2	67.9	66.8
Moldova	917	13.4	11.8	49.1	14.5	11.2	49.1	0.1	10.3	0.8	49.6	48.3
Morocco	1256	18.3	15.8	22.3	15.5	28.1	22.3	0.1	25.0	3.0	18.2	25.1
Netherlands	747	4.5	10.9	72.1	10.8	1.7	72.1	0.1	1.4	0.3	70.5	74.2
New Zealand	899	10.5	12.2	54.2	19.5	3.7	54.2	0.3	2.8	0.7	49.0	59.5
Philippines	1633	35.3	26.7	22.4	8.6	7.1	22.4	0.0	6.2	0.9	23.4	21.2
Romania	849	15.5	12.9	46.2	17.1	8.4	46.2	0.0	7.3	1.0	43.5	48.6
Russian Federation	1096	11.4	5.4	58.6	8.8	15.8	58.6	0.2	14.4	1.2	55.3	62.2
Singapore	1240	4.2	6.3	80.0	8.5	1.1	80.0	0.0	0.8	0.3	77.2	82.6
Slovak Republic	865	8.5	8.4	69.1	6.7	7.3	69.1	0.0	6.1	1.2	65.6	73.1
Slovenia	772	11.2	11.4	62.3	8.3	6.8	62.3	0.1	5.7	1.0	59.9	65.2
South Africa	2003	29.0	18.6	20.2	19.2	13.0	20.2	0.3	10.9	1.8	20.1	20.2
Thailand	1430	19.7	14.4	44.8	15.2	6.1	44.8	0.0	4.6	1.5	43.4	46.3
Tunisia	1252	19.7	10.7	31.3	20.1	18.2	31.3	0.6	16.0	1.5	28.0	34.5
Turkey	1951	16.8	17.8	35.5	19.2	10.6	35.5	0.0	8.5	2.1	31.9	38.0
United States	2240	8.8	15.9	61.6	9.0	4.6	61.6	0.1	3.9	0.7	59.0	64.1
International Avg.	.	13.3	11.8	53.5	12.8	8.6	53.5	0.1	7.2	1.3	51.3	55.6

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Fractions and Number Sense  
 Label: Estimate time for water to cool ( M022232 - U01 )  
 Item Type = EX Key = X

COUNTRY	N	20	21	22	23	24	29	10	11	19	70	71	72	77	78	79	99	V1	V2	NOT REACH		1.GIRL	2.BOY	
																				ED	OMIT	% Right	% Right	
Australia	1017	2.0	1.0	4.7	3.9	5.6	0.6	0.6	0.1	7.4	0.2	5.6	1.7	0.0	0.0	57.7	8.8	26.0	17.9	0.5	8.3	18.0	17.7	
Belgium (Flemish)	1307	4.2	1.0	7.5	3.4	3.4	1.2	0.9	0.6	1.9	2.0	9.4	1.4	0.0	0.0	54.8	8.5	23.9	20.5	0.5	8.0	20.0	21.0	
Bulgaria	817	2.1	0.2	2.0	6.8	8.2	0.3	0.8	0.5	1.8	1.9	3.5	3.0	0.0	0.0	32.1	36.8	22.7	19.6	2.4	34.3	22.5	16.4	
Canada	2216	5.3	0.6	4.5	1.9	8.2	0.8	0.4	0.0	1.6	0.7	4.7	6.0	0.0	0.0	59.2	6.1	23.4	21.4	0.2	5.9	20.5	22.4	
Chile	1480	0.2	0.0	0.2	0.6	0.2	0.1	0.2	0.0	0.8	0.0	3.5	1.4	4.8	0.6	33.9	53.4	2.3	1.3	7.4	45.9	0.1	2.5	
Chinese Taipei	1437	1.0	0.2	4.8	16.5	1.3	0.9	0.2	0.0	2.7	0.1	20.8	4.2	0.0	0.0	43.3	3.9	27.7	24.8	0.1	3.8	23.4	26.2	
Cyprus	774	0.6	0.1	1.5	0.4	3.3	0.2	0.3	0.3	1.3	0.3	8.4	7.5	0.0	0.0	39.6	36.3	8.0	6.1	0.0	36.3	6.5	5.6	
Czech Republic	881	1.0	0.0	2.6	2.2	7.2	2.1	0.0	0.0	7.6	0.0	4.8	2.8	0.0	0.0	59.0	10.6	22.7	15.1	0.3	10.3	14.5	15.8	
England	757	2.7	0.4	5.9	1.0	6.8	0.3	0.0	0.1	7.0	0.5	2.3	2.5	0.0	0.0	63.0	7.4	24.3	17.1	0.0	7.4	16.3	17.9	
Finland	736	1.9	0.2	2.6	1.7	3.2	10.5	0.7	0.0	4.4	0.5	6.4	4.1	0.0	0.0	60.2	3.6	25.3	20.2	0.0	3.6	17.7	22.6	
Hong Kong, SAR	1302	3.1	0.1	1.6	2.7	8.9	2.3	0.2	0.0	3.1	0.4	12.9	1.8	0.0	0.0	54.9	7.8	22.1	18.8	0.4	7.4	18.5	19.1	
Hungary	793	3.1	0.7	4.3	3.5	12.2	1.2	0.4	0.9	1.2	0.6	4.7	1.3	0.0	0.0	52.8	13.1	27.5	25.0	1.0	12.0	23.2	26.7	
Indonesia	1469	0.0	0.0	0.1	0.1	0.1	0.3	0.1	0.0	0.2	1.1	11.9	0.4	0.0	0.0	73.8	11.9	0.9	0.6	0.4	11.5	0.3	0.9	
Iran, Islamic Rep.	1319	0.0	0.0	1.1	1.0	0.5	0.1	0.2	0.1	1.2	0.5	4.0	1.5	0.0	0.0	52.3	37.4	4.2	2.7	0.9	36.5	2.3	3.0	
Israel	1043	2.2	0.1	2.5	1.9	2.4	0.0	0.7	0.0	1.7	0.8	7.6	4.6	0.0	0.0	40.5	35.1	11.5	9.1	2.8	32.3	8.1	10.0	
Italy	830	1.6	0.6	1.8	1.3	5.4	0.2	0.5	0.2	3.2	2.5	7.8	2.6	0.0	0.0	40.9	31.3	14.9	11.0	1.3	30.0	8.1	14.1	
Japan	1187	3.4	0.9	5.3	6.8	1.6	7.6	0.1	0.3	4.4	0.3	12.3	1.4	0.0	0.0	48.2	7.5	30.4	25.7	0.3	7.2	26.3	25.1	
Jordan	1269	4.1	0.2	0.8	1.5	2.0	0.1	0.4	0.2	2.1	1.2	1.2	1.6	0.0	0.0	68.6	15.9	11.5	8.8	0.2	15.7	11.6	6.4	
Korea, Rep. of	1526	9.0	0.9	0.6	14.0	0.2	2.9	0.4	0.2	0.6	3.6	17.4	2.5	0.0	0.0	38.2	9.5	28.8	27.6	0.1	9.5	26.3	28.8	
Latvia (LSS)	714	5.9	0.0	1.2	1.9	1.7	0.3	0.2	0.0	2.8	3.9	10.7	2.1	0.0	0.0	46.2	23.0	14.1	11.1	1.6	21.4	8.7	13.4	
Lithuania	586	0.2	0.0	0.4	1.9	2.8	0.8	0.0	0.1	0.9	0.1	10.1	3.1	0.0	0.0	49.4	30.2	7.1	6.0	0.9	29.3	4.9	7.3	
Macedonia, Rep. of	1010	1.5	0.4	0.2	1.5	0.4	0.7	0.5	0.5	0.7	0.6	5.6	1.5	0.0	0.0	33.7	52.2	6.4	4.7	5.0	47.2	4.4	5.0	
Malaysia	1395	1.4	0.0	1.6	9.0	3.4	0.9	0.2	0.1	1.9	0.5	9.5	0.9	0.0	0.0	52.3	18.1	18.6	16.4	0.5	17.7	17.3	15.4	
Moldova	926	6.8	0.4	0.3	0.4	3.1	0.0	2.8	0.5	0.6	0.5	11.0	3.1	0.0	0.0	51.3	19.2	14.8	11.0	2.0	17.2	10.0	12.2	
Morocco	1373	0.2	0.0	0.1	0.2	0.1	0.2	0.2	0.1	0.2	0.0	0.7	0.3	0.0	0.0	51.2	46.6	1.3	0.9	6.8	39.8	0.2	1.4	
Netherlands	736	2.9	2.0	7.5	1.8	5.5	0.3	0.6	3.2	3.2	2.8	4.8	4.1	0.0	0.0	56.4	4.9	26.9	20.0	0.3	4.7	23.8	15.1	
New Zealand	905	2.1	0.7	3.3	0.5	6.4	0.3	0.1	0.3	4.3	1.2	2.4	2.2	3.8	0.0	63.6	8.8	18.0	13.3	0.3	8.5	15.9	10.6	
Philippines	1642	0.0	0.0	0.2	0.6	0.3	0.0	0.1	0.0	0.1	0.1	1.3	0.4	0.0	0.0	69.5	27.4	1.3	1.1	1.0	26.4	1.2	1.0	
Romania	857	1.2	0.1	0.8	1.5	0.7	0.0	0.8	0.1	3.1	0.3	11.8	2.3	0.0	0.0	45.4	31.8	8.4	4.4	2.0	29.8	3.4	5.2	
Russian Federation	1092	0.8	0.1	4.1	4.2	4.7	1.3	0.1	0.4	4.2	0.4	9.4	6.5	0.0	0.0	45.0	19.0	19.7	15.1	2.7	16.3	13.1	17.0	
Singapore	1252	10.9	1.2	5.5	12.7	10.2	1.9	0.4	0.4	3.9	2.0	4.4	2.1	0.0	0.0	40.7	3.8	47.0	42.3	0.0	3.7	40.5	44.0	
Slovak Republic	873	11.1	0.1	1.1	2.5	6.7	0.4	0.1	0.0	1.5	0.0	6.3	1.3	0.0	0.0	52.0	16.6	23.7	22.1	0.6	16.0	22.8	21.2	
Slovenia	789	4.5	0.1	10.5	4.2	3.2	0.6	0.5	0.2	2.1	1.0	5.7	7.0	0.0	0.0	43.2	17.2	25.9	23.0	0.2	17.0	21.9	24.3	
South Africa	2088	0.3	0.1	0.2	0.1	0.5	0.0	0.1	0.0	0.5	0.3	0.9	0.5	0.0	0.0	76.3	20.2	1.8	1.2	3.8	16.3	1.1	1.3	
Thailand	1430	4.7	0.6	1.3	1.1	1.1	0.5	1.6	0.2	4.0	0.6	10.6	6.3	0.0	0.0	61.2	6.4	14.9	9.2	0.9	5.5	8.3	10.2	
Tunisia	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Turkey	1951	1.0	0.3	0.3	0.3	1.3	0.3	0.5	0.1	0.4	0.2	8.8	1.1	0.0	0.0	58.2	27.2	4.5	3.5	0.8	26.4	4.1	3.2	
United States	2263	5.4	0.4	4.7	1.6	8.5	0.4	0.2	0.1	4.5	1.7	4.1	2.0	0.0	0.0	57.0	9.3	25.8	21.0	0.5	8.8	21.2	20.8	
International Avg.	.	2.9	0.4	2.6	3.2	3.8	1.1	0.4	0.3	2.5	0.9	7.2	2.7	0.2	0.0	52.0	19.6	17.3	14.0	1.3	18.3	13.7	14.4	

V1 = % Scoring 1 or better V2 = % Scoring 2 or better V3 = % Scoring 3 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Measurement  
 Label: New rectangle from old ( M022234A - U02A )  
 Item Type = EX Key = X

COUNTRY	N	NOT REACHED										1.GIRL		2.BOY	
		20	10	11	70	71	79	99	V1	V2	ED	OMIT	% Right	% Right	
Australia	1017	36.1	0.5	8.1	21.4	6.0	19.4	8.4	44.7	36.1	1.5	6.9	36.3	35.9	
Belgium (Flemish)	1307	53.2	1.1	11.3	12.3	4.7	10.1	7.3	65.6	53.2	2.7	4.6	56.0	50.4	
Bulgaria	817	32.0	1.3	16.3	3.5	3.6	12.0	31.3	49.6	32.0	14.9	16.4	33.6	30.3	
Canada	2216	26.9	0.4	10.9	22.9	6.9	23.9	8.1	38.2	26.9	1.4	6.7	26.7	27.2	
Chile	1480	4.8	0.1	2.1	6.1	5.5	37.8	43.6	7.0	4.8	23.5	20.1	3.7	5.8	
Chinese Taipei	1437	46.3	1.1	16.6	15.6	2.4	15.0	3.1	63.9	46.3	0.6	2.6	48.4	44.1	
Cyprus	774	27.0	0.4	12.4	13.4	6.3	22.1	18.3	39.8	27.0	7.3	11.1	31.1	23.1	
Czech Republic	881	27.2	0.7	14.1	7.0	5.5	28.3	17.2	42.0	27.2	3.8	13.4	25.6	29.0	
England	757	23.9	0.5	8.0	26.5	8.2	26.1	6.8	32.3	23.9	0.4	6.4	22.7	24.9	
Finland	736	40.2	1.0	12.0	17.3	6.6	16.8	6.2	53.1	40.2	1.1	5.1	40.3	40.1	
Hong Kong, SAR	1304	40.3	0.6	11.8	13.0	3.5	19.9	10.9	52.7	40.3	2.1	8.8	44.8	35.6	
Hungary	793	42.8	2.3	12.5	10.3	6.5	10.4	15.2	57.6	42.8	4.8	10.5	40.9	45.2	
Indonesia	1453	14.4	0.6	2.6	9.7	6.6	48.3	17.7	17.7	14.4	3.7	14.0	17.2	11.6	
Iran, Islamic Rep.	1319	13.9	0.4	9.8	11.2	11.7	35.6	17.4	24.1	13.9	8.3	9.0	14.0	13.8	
Israel	1043	20.4	1.9	9.1	13.9	7.1	21.8	26.0	31.3	20.4	13.1	12.9	19.8	20.8	
Italy	830	26.4	1.1	8.0	21.1	4.4	20.0	19.0	35.5	26.4	7.0	12.0	27.4	25.3	
Japan	1187	60.5	1.9	13.1	5.2	6.7	6.0	6.5	75.5	60.5	1.6	5.0	64.0	57.1	
Jordan	1269	13.4	1.3	5.2	14.5	9.9	42.9	12.8	19.9	13.4	3.6	9.2	11.6	15.0	
Korea, Rep. of	1525	44.6	0.2	19.2	8.6	3.5	14.4	9.5	64.0	44.6	1.9	7.6	49.5	39.8	
Latvia (LSS)	714	30.2	0.5	0.6	19.2	6.2	20.3	23.0	31.4	30.2	7.7	15.3	30.4	30.1	
Lithuania	586	18.6	0.6	6.8	3.8	12.7	20.7	36.8	26.0	18.6	11.2	25.6	18.2	19.1	
Macedonia, Rep. of	1010	13.0	2.6	6.2	4.2	3.9	20.8	49.3	21.8	13.0	26.2	23.1	13.2	12.8	
Malaysia	1395	29.9	0.8	9.4	20.6	5.4	22.9	10.9	40.2	29.9	3.2	7.7	31.6	27.9	
Moldova	926	32.0	5.2	2.4	3.2	3.6	21.4	32.2	39.6	32.0	11.2	21.0	31.1	33.1	
Morocco	1374	1.5	0.5	0.4	4.4	3.2	46.4	43.6	2.4	1.5	19.5	24.1	1.8	1.3	
Netherlands	736	38.3	1.8	11.5	12.9	9.1	21.7	4.7	51.6	38.3	0.8	3.8	39.0	37.5	
New Zealand	905	28.2	0.7	8.1	16.8	8.2	29.7	8.3	37.0	28.2	1.3	7.0	30.1	26.2	
Philippines	1642	2.0	0.4	1.3	5.2	2.7	44.2	44.3	3.7	2.0	9.9	34.4	2.1	1.9	
Romania	857	21.7	3.7	13.3	9.4	9.8	15.9	26.3	38.7	21.7	11.1	15.2	24.1	19.5	
Russian Federation	1092	29.6	0.7	17.3	6.1	5.6	15.1	25.6	47.7	29.6	9.4	16.1	29.7	29.6	
Singapore	1252	69.2	1.0	6.2	9.7	2.6	8.0	3.2	76.5	69.2	0.2	2.9	68.4	70.0	
Slovak Republic	873	18.6	0.8	29.6	4.9	4.4	22.4	19.4	48.9	18.6	3.8	15.6	21.1	15.8	
Slovenia	789	25.6	0.6	14.4	16.2	6.1	20.8	16.2	40.6	25.6	4.2	12.1	27.9	23.0	
South Africa	2088	2.0	0.0	0.6	5.1	1.7	36.7	53.8	2.6	2.0	10.8	43.0	2.0	2.1	
Thailand	1430	19.3	0.7	2.8	14.3	4.7	39.5	18.7	22.9	19.3	2.9	15.8	21.4	16.8	
Tunisia	1259	13.9	1.2	13.9	16.3	10.3	25.3	19.1	29.0	13.9	9.0	10.1	12.0	15.9	
Turkey	1951	13.4	0.9	5.1	7.3	7.2	25.0	41.2	19.4	13.4	12.7	28.5	14.7	12.6	
United States	2263	19.7	0.4	7.0	20.1	8.5	32.9	11.4	27.1	19.7	2.4	9.0	19.4	20.0	
International Avg.	.	26.9	1.1	9.5	11.9	6.1	24.2	20.3	37.4	26.9	6.9	13.5	27.7	26.1	

V1 = % Scoring 1 or better V2 = % Scoring 2 or better V3 = % Scoring 3 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Measurement  
 Label: New rectangle from old ( M022234B - U02B )  
 Item Type = EX Key = X

COUNTRY	N	20	21	10	11	19	70	79	99	V1	V2	NOT	1.GIRL	2.BOY	
												REACH			% Right
												ED	OMIT		
Australia	1017	24.6	7.3	1.8	1.9	1.8	11.6	28.8	22.2	37.4	31.9	3.3	18.9	31.3	32.4
Belgium (Flemish)	1307	19.9	0.6	1.1	0.9	0.8	3.5	48.6	24.6	23.3	20.5	3.3	21.2	20.7	20.3
Bulgaria	817	22.3	0.1	0.9	0.2	1.9	1.4	15.6	57.6	25.4	22.4	16.9	40.7	23.1	21.6
Canada	2216	21.1	5.9	1.2	1.9	0.7	11.4	34.7	23.0	31.0	27.1	3.0	20.0	26.3	28.0
Chile	1480	1.5	0.4	0.0	0.1	0.2	7.9	18.9	71.0	2.2	1.9	27.2	43.7	1.3	2.6
Chinese Taipei	1437	53.7	11.1	3.0	0.9	0.4	4.0	23.8	3.1	69.1	64.8	1.0	2.2	67.5	62.2
Cyprus	775	17.5	0.0	1.1	3.3	1.6	2.6	26.0	47.9	23.6	17.5	8.4	39.5	18.4	16.7
Czech Republic	881	18.0	2.0	2.3	0.9	0.5	6.1	28.9	41.2	23.7	20.0	8.4	32.8	18.9	21.2
England	757	13.2	3.5	0.5	1.4	0.1	4.6	45.2	31.4	18.8	16.8	2.1	29.3	14.4	18.9
Finland	736	9.4	1.5	1.5	0.2	2.3	0.5	61.1	23.5	14.9	10.9	2.8	20.7	7.1	14.7
Hong Kong, SAR	1304	38.8	4.1	1.9	1.4	0.4	1.7	36.2	15.5	46.6	42.9	2.9	12.6	45.2	40.6
Hungary	793	21.5	1.0	1.9	2.2	3.4	5.4	26.7	37.9	30.0	22.5	8.8	29.1	25.0	19.6
Indonesia	1453	10.5	0.1	0.7	0.7	0.4	1.5	54.0	32.1	12.4	10.5	6.5	25.6	12.8	8.3
Iran, Islamic Rep.	1319	7.8	0.6	0.5	1.0	0.3	5.3	41.3	43.1	10.2	8.4	9.5	33.6	9.1	7.9
Israel	1043	6.5	0.7	1.5	1.1	1.4	2.1	31.5	55.3	11.1	7.1	17.7	37.6	6.4	7.9
Italy	830	15.6	2.4	2.4	2.3	1.4	2.9	32.4	40.4	24.2	18.0	9.8	30.7	16.3	19.9
Japan	1187	46.6	1.7	3.7	0.8	0.3	9.7	21.2	16.1	53.1	48.3	2.2	14.0	48.4	48.3
Jordan	1269	9.4	3.2	0.8	0.3	0.5	2.5	46.0	37.2	14.3	12.6	4.6	32.5	13.5	11.9
Korea, Rep. of	1525	51.0	7.3	1.3	0.0	0.1	3.4	22.5	14.5	59.7	58.2	2.6	11.8	59.7	56.8
Latvia (LSS)	714	14.9	2.6	0.7	0.3	3.3	5.1	29.3	43.8	21.8	17.5	12.2	31.6	18.0	17.0
Lithuania	586	10.8	0.4	0.7	0.6	0.9	0.0	31.2	55.3	13.5	11.2	17.9	37.4	11.9	10.3
Macedonia, Rep. of	1010	2.2	0.1	1.0	0.7	0.7	0.1	15.5	79.6	4.8	2.3	31.5	48.1	2.2	2.4
Malaysia	1395	26.0	8.0	0.5	0.7	0.4	11.6	27.4	25.3	35.6	34.0	4.1	21.2	38.5	28.4
Moldova	926	17.3	0.8	2.3	0.2	0.3	0.4	16.9	61.9	20.8	18.0	18.6	43.3	18.5	17.3
Morocco	1375	0.1	0.0	0.0	0.0	0.0	0.4	31.0	68.4	0.2	0.2	23.0	45.4	0.1	0.2
Netherlands	736	7.5	0.5	1.5	0.3	0.0	0.5	62.8	26.9	9.7	8.0	1.4	25.5	8.3	7.7
New Zealand	905	11.6	1.1	0.5	0.0	0.1	8.7	47.2	30.7	13.3	12.7	2.5	28.3	11.9	13.6
Philippines	1641	1.8	0.7	0.0	0.4	0.0	8.6	42.9	45.6	2.8	2.4	13.7	31.9	2.6	2.2
Romania	857	22.4	4.0	1.2	0.3	2.4	2.0	18.9	48.8	30.3	26.5	14.0	34.9	27.8	25.3
Russian Federation	1092	22.0	1.9	1.1	1.0	1.4	1.7	16.1	54.8	27.4	23.9	14.5	40.3	23.2	24.6
Singapore	1252	69.9	7.1	1.1	0.5	1.6	5.0	8.7	6.2	80.1	77.0	0.4	5.9	77.9	76.2
Slovak Republic	873	31.1	0.0	0.8	0.3	0.3	1.0	22.0	44.5	32.5	31.1	7.1	37.4	29.9	32.4
Slovenia	789	23.8	4.9	1.4	0.5	1.7	6.6	23.2	37.9	32.3	28.7	6.8	31.1	30.4	26.7
South Africa	2088	0.7	0.1	0.0	0.1	0.1	0.8	37.5	60.8	0.9	0.8	15.2	45.6	1.0	0.6
Thailand	1430	13.2	0.3	0.2	3.1	0.1	2.2	48.7	32.1	16.9	13.5	5.6	26.5	14.6	12.2
Tunisia	1258	4.9	0.8	0.9	0.4	2.9	0.8	48.8	40.2	10.1	5.8	12.4	27.9	6.0	5.5
Turkey	1951	4.6	0.1	2.3	0.3	1.5	1.0	24.3	65.9	8.8	4.7	17.8	48.1	5.1	4.4
United States	2263	12.7	4.0	1.0	1.1	0.2	11.4	42.8	26.7	19.0	16.7	3.6	23.1	14.8	18.6
International Avg.	.	18.6	2.4	1.2	0.9	1.0	4.1	32.6	39.3	24.0	21.0	9.6	29.7	21.3	20.7

V1 = % Scoring 1 or better V2 = % Scoring 2 or better V3 = % Scoring 3 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Measurement  
 Label: Area of triangle inside a square ( M022243 - U03 )  
 Item Type = SA Key = X

COUNTRY	N	10	70	77	78	79	99	V1	NOT	OMIT	1.GIRL	2.BOY
									REACH		% Right	% Right
Australia	1017	49.3	7.0	0.0	0.0	36.1	7.5	49.3	5.0	2.5	48.5	50.1
Belgium (Flemish)	1307	54.5	7.2	0.0	0.0	33.3	5.0	54.5	4.1	1.0	53.8	55.2
Bulgaria	815	43.3	5.5	0.0	0.0	26.4	24.8	43.3	22.4	2.4	43.9	42.5
Canada	2216	43.8	9.8	0.0	0.0	40.3	6.1	43.8	4.9	1.1	42.0	45.9
Chile	1480	6.6	4.1	9.6	9.7	30.5	39.6	6.6	36.4	3.2	6.0	7.3
Chinese Taipei	1436	75.0	3.4	0.0	0.0	19.6	2.0	75.0	1.0	1.0	75.9	74.1
Cyprus	775	49.2	5.1	0.0	0.0	29.5	16.2	49.2	14.4	1.8	52.5	46.1
Czech Republic	881	33.2	5.1	0.0	0.0	43.8	17.8	33.2	12.9	4.9	33.0	33.5
England	757	39.0	7.8	0.0	0.0	47.0	6.3	39.0	4.8	1.5	35.7	41.9
Finland	736	40.2	8.1	0.0	0.0	44.5	7.1	40.2	5.2	1.9	34.8	45.6
Hong Kong, SAR	1304	80.6	1.1	0.0	0.0	14.4	3.9	80.6	3.1	0.9	81.4	79.7
Hungary	793	49.7	4.8	0.0	0.0	28.6	16.9	49.7	13.4	3.5	47.6	52.5
Indonesia	1449	27.8	5.7	0.0	0.0	54.9	11.7	27.8	8.9	2.8	29.3	26.3
Iran, Islamic Rep.	1319	26.0	7.8	0.0	0.0	45.2	21.1	26.0	15.6	5.4	25.3	26.5
Israel	1043	22.2	7.9	0.0	0.0	38.7	31.1	22.2	26.5	4.6	21.9	22.5
Italy	830	50.0	7.7	0.0	0.0	25.2	17.1	50.0	14.4	2.7	46.8	53.6
Japan	1187	79.9	2.3	0.0	0.0	14.1	3.7	79.9	3.3	0.4	78.9	81.0
Jordan	1269	26.5	5.8	0.0	0.0	58.1	9.6	26.5	8.0	1.6	27.4	25.8
Korea, Rep. of	1525	77.2	2.7	0.0	0.0	16.9	3.2	77.2	2.8	0.4	77.1	77.3
Latvia (LSS)	708	22.2	5.5	0.0	0.0	44.9	27.4	22.2	18.3	9.1	17.0	28.0
Lithuania	586	18.4	7.7	0.0	0.0	43.9	30.0	18.4	23.2	6.8	19.0	17.7
Macedonia, Rep. of	1010	22.0	3.5	0.0	0.0	31.6	42.8	22.0	40.4	2.5	22.1	22.0
Malaysia	1392	51.9	4.8	0.0	0.0	35.7	7.7	51.9	5.7	2.0	54.5	48.6
Moldova	923	32.7	5.6	0.0	0.0	35.1	26.6	32.7	24.4	2.2	32.7	32.6
Morocco	1365	10.4	4.6	0.0	0.0	50.8	34.2	10.4	29.4	4.8	12.0	9.3
Netherlands	736	47.3	8.9	0.0	0.0	41.8	2.1	47.3	2.0	0.1	44.6	50.5
New Zealand	905	37.8	5.9	9.0	0.0	40.2	7.0	37.8	5.6	1.4	38.1	37.6
Philippines	1641	3.9	2.9	0.0	0.0	73.9	19.2	3.9	15.9	3.4	3.5	4.4
Romania	854	39.4	3.4	0.0	0.0	31.1	26.1	39.4	21.2	5.0	39.1	39.7
Russian Federation	1091	37.8	8.9	0.0	0.0	28.5	24.8	37.8	20.9	3.9	34.0	41.5
Singapore	1252	82.7	2.2	0.0	0.0	13.7	1.4	82.7	0.9	0.5	80.7	84.4
Slovak Republic	870	52.0	3.3	0.0	0.0	29.8	14.9	52.0	11.6	3.4	48.4	56.0
Slovenia	789	43.4	3.8	0.0	0.0	39.4	13.4	43.4	10.9	2.5	46.8	39.5
South Africa	2088	3.2	2.9	0.0	0.0	76.9	17.0	3.2	16.1	0.9	1.8	4.8
Thailand	1430	35.1	4.9	0.0	0.0	52.4	7.5	35.1	6.4	1.1	35.9	34.1
Tunisia	1259	24.6	17.5	0.0	0.0	33.9	24.0	24.6	18.4	5.7	21.2	28.1
Turkey	1952	19.8	4.7	0.0	0.0	47.4	28.2	19.8	24.6	3.6	20.8	19.1
United States	2263	28.2	9.3	0.0	0.0	55.6	6.9	28.2	5.4	1.5	25.9	30.4
International Avg.	.	39.1	5.8	0.5	0.3	38.3	16.1	39.1	13.4	2.7	38.4	39.9

V1 = % Scoring 1 or better V2 = % Scoring 2 or better V3 = % Scoring 3 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Fractions and Number Sense  
 Label: Two possibilities for actual height ( M022237 - V01 )  
 Item Type = SA Key = X

COUNTRY	N	NOT REACHED										1.GIRL % Right	2.BOY % Right	
		10	11	17	70	71	77	79	99	V1	ED			OMIT
Australia	1025	1.9	67.1	0.0	1.7	8.9	0.0	16.0	4.4	68.9	0.2	4.2	70.8	67.1
Belgium (Flemish)	1314	5.4	55.9	0.0	9.8	18.0	0.0	9.5	1.4	61.3	0.1	1.4	60.2	62.4
Bulgaria	824	1.1	38.8	0.0	6.0	21.1	0.0	17.6	15.4	40.0	1.7	13.7	40.1	39.8
Canada	2187	10.0	61.8	0.0	1.7	5.6	0.0	17.2	3.8	71.8	0.2	3.5	72.8	71.0
Chile	1477	0.5	7.0	0.0	3.9	18.0	5.1	29.7	35.8	7.6	7.2	28.6	5.4	9.6
Chinese Taipei	1430	5.4	59.2	0.0	1.0	2.9	0.0	27.6	4.0	64.5	0.0	4.0	65.9	63.2
Cyprus	771	0.6	20.3	0.0	6.2	18.1	0.0	36.0	18.8	20.9	0.0	18.8	20.4	21.5
Czech Republic	862	3.1	78.4	0.0	1.9	0.2	0.0	9.1	7.2	81.5	0.7	6.5	78.9	84.0
England	741	3.0	58.2	0.0	1.4	8.7	0.0	22.6	6.2	61.2	2.0	4.2	59.4	62.8
Finland	724	1.0	84.5	0.0	2.1	3.7	0.0	7.3	1.4	85.5	0.3	1.1	85.3	85.7
Hong Kong, SAR	1286	5.1	60.5	0.0	2.6	5.4	0.0	22.8	3.6	65.6	0.2	3.5	65.9	65.2
Hungary	790	9.2	56.4	0.0	0.6	3.8	0.0	18.2	11.8	65.6	1.7	10.1	66.9	64.3
Indonesia	1468	9.2	14.9	0.0	3.1	12.0	0.0	50.6	10.2	24.1	0.6	9.7	25.3	22.9
Iran, Islamic Rep.	1331	0.6	3.9	0.0	3.0	7.3	0.0	53.7	31.6	4.5	1.1	30.5	4.1	4.8
Israel	1043	3.7	39.9	0.0	2.4	2.4	0.0	28.2	23.5	43.5	2.0	21.4	43.2	43.9
Italy	827	1.4	23.8	0.0	5.0	27.1	0.0	29.4	13.4	25.2	1.2	12.2	23.7	26.8
Japan	1200	1.7	66.9	0.0	2.4	2.1	0.0	20.1	6.8	68.6	0.2	6.6	65.8	71.3
Jordan	1263	4.2	25.1	0.0	1.4	4.5	0.0	53.8	11.0	29.3	0.2	10.8	32.2	26.7
Korea, Rep. of	1527	3.9	62.2	0.0	1.3	2.9	0.0	24.3	5.3	66.1	0.1	5.2	64.1	68.1
Latvia (LSS)	710	1.8	37.6	0.0	3.8	15.6	0.0	27.8	13.6	39.3	1.4	12.2	39.4	39.3
Lithuania	586	3.0	53.8	0.0	4.6	0.8	0.0	23.5	14.3	56.8	1.0	13.3	55.8	57.9
Macedonia, Rep. of	1010	6.0	6.6	0.0	5.0	19.9	0.0	27.7	34.8	12.6	3.6	31.2	14.8	10.5
Malaysia	1383	2.5	30.7	0.0	4.1	6.0	0.0	46.5	10.1	33.2	0.4	9.7	32.3	34.3
Moldova	930	10.4	32.6	0.0	1.8	0.7	0.0	34.7	19.8	43.0	2.1	17.8	47.2	37.8
Morocco	1371	1.8	0.8	0.0	4.0	1.4	0.0	33.0	59.0	2.6	4.6	54.4	3.7	1.8
Netherlands	734	1.7	62.3	0.0	0.9	8.0	0.0	24.5	2.5	64.0	0.0	2.5	56.6	72.4
New Zealand	907	1.4	55.7	0.8	1.1	7.8	14.0	14.8	4.4	58.0	0.1	4.3	59.4	56.5
Philippines	1641	1.3	8.1	0.0	1.6	2.0	0.0	73.2	13.9	9.4	0.8	13.1	9.9	8.8
Romania	855	3.2	11.8	0.0	4.6	23.7	0.0	33.6	23.1	15.0	1.4	21.7	14.6	15.5
Russian Federation	1084	10.8	58.1	0.0	0.8	0.4	0.0	16.3	13.6	68.8	1.1	12.6	71.0	66.7
Singapore	1250	1.2	77.0	0.0	1.4	3.0	0.0	16.3	1.2	78.2	0.2	1.0	77.9	78.5
Slovak Republic	886	2.9	75.8	0.0	1.9	0.9	0.0	8.8	9.7	78.6	0.9	8.9	76.9	80.3
Slovenia	782	2.7	37.9	0.0	3.8	31.8	0.0	19.0	4.9	40.6	0.1	4.7	42.1	38.9
South Africa	2075	0.5	5.1	0.0	0.9	3.1	0.0	75.0	15.4	5.6	3.8	11.6	5.2	6.0
Thailand	1442	1.0	60.0	0.0	1.9	7.0	0.0	27.2	2.9	61.0	0.5	2.3	62.8	58.9
Tunisia	1262	1.9	4.8	0.0	2.5	15.9	0.0	52.8	22.1	6.8	3.1	19.0	5.1	8.6
Turkey	1957	0.3	3.5	0.0	5.7	22.3	0.0	39.3	28.8	3.8	0.6	28.3	3.7	3.9
United States	2229	0.5	55.8	0.0	1.9	6.1	0.0	29.5	6.2	56.3	0.3	5.9	54.6	58.0
International Avg.	.	3.3	41.1	0.0	2.9	9.2	0.5	29.4	13.6	44.5	1.2	12.4	44.3	44.6

V1 = % Scoring 1 or better V2 = % Scoring 2 or better V3 = % Scoring 3 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Data Representation, Analysis and Probability  
 Label: Cheaper magazine subscription ( M022256 - V02 )  
 Item Type = EX Key = X

COUNTRY	N	20	29	10	11	12	13	17	19	77	79	97	99	V1	V2	NOT REACH		1.GIRL	2.BOY
																ED	OMIT	% Right	% Right
Australia	1025	27.8	0.7	8.0	2.2	19.6	0.8	0.0	0.2	0.0	32.5	0.0	8.1	59.4	28.5	0.5	7.6	30.2	26.9
Belgium (Flemish)	1314	33.3	8.3	2.5	0.7	9.4	2.8	0.0	9.4	0.0	29.2	0.0	4.4	66.4	41.5	0.2	4.2	41.6	41.4
Bulgaria	825	19.9	1.8	7.3	1.7	5.8	6.3	0.0	4.7	0.0	24.4	0.0	28.1	47.5	21.7	2.6	25.5	24.2	18.9
Canada	2187	30.8	1.5	10.0	2.6	13.4	1.0	0.0	0.9	0.0	34.1	0.0	5.8	60.2	32.3	0.4	5.4	33.1	31.6
Chile	1477	4.5	0.3	2.8	0.7	1.2	1.4	0.0	0.6	9.3	43.4	0.0	35.8	11.5	4.8	11.8	24.0	4.9	4.7
Chinese Taipei	1430	47.3	2.6	0.9	0.7	6.5	2.3	0.0	1.5	0.0	35.0	0.0	3.3	61.7	49.8	0.1	3.2	49.5	50.2
Cyprus	771	20.8	0.0	7.9	1.0	9.2	0.8	0.0	14.8	0.0	23.5	0.0	22.0	54.4	20.8	0.1	21.9	20.2	21.3
Czech Republic	862	32.4	1.3	9.3	5.0	9.9	0.4	0.0	3.0	0.0	27.2	0.0	11.6	61.2	33.7	1.3	10.3	35.0	32.4
England	741	16.7	0.0	8.2	1.2	17.6	0.1	0.0	0.3	0.0	45.5	0.0	10.5	44.1	16.7	2.0	8.4	15.2	18.0
Finland	724	27.1	0.9	8.9	15.0	0.9	2.6	0.0	0.7	0.0	38.4	0.0	5.6	56.0	28.0	0.4	5.1	29.7	26.1
Hong Kong, SAR	1285	32.1	1.6	8.6	0.8	5.6	14.3	0.0	0.8	0.0	30.2	0.0	5.9	63.9	33.7	0.2	5.8	37.5	30.1
Hungary	790	34.2	0.7	15.4	3.2	8.6	0.7	0.0	5.3	0.0	20.3	0.0	11.6	68.1	34.9	2.0	9.6	38.2	31.7
Indonesia	1468	4.0	0.5	1.6	0.3	0.8	12.7	0.0	19.0	0.0	53.2	0.0	7.8	39.0	4.6	1.1	6.7	4.7	4.5
Iran, Islamic Rep.	1331	8.2	0.4	2.5	0.9	5.7	1.1	0.0	0.5	0.0	57.6	0.0	23.0	19.3	8.6	1.6	21.4	8.3	8.8
Israel	1043	18.5	0.6	6.9	1.8	10.3	1.8	0.0	6.8	0.0	32.6	0.0	20.8	46.6	19.1	2.5	18.3	18.5	19.8
Italy	827	22.6	4.2	3.4	0.1	4.8	3.7	0.0	11.8	0.0	31.6	0.0	17.7	50.7	26.9	1.7	16.0	27.1	26.7
Japan	1200	38.2	0.9	10.5	0.9	5.7	4.6	0.0	1.6	0.0	30.9	0.0	6.8	62.4	39.1	0.2	6.6	38.2	40.1
Jordan	1263	8.6	3.1	2.2	0.9	6.6	2.0	0.0	1.1	0.0	58.9	0.0	16.6	24.5	11.7	0.3	16.3	11.9	11.5
Korea, Rep. of	1527	50.9	0.7	3.6	0.8	11.1	1.0	0.0	6.2	0.0	17.3	0.0	8.4	74.3	51.7	0.1	8.4	51.3	52.1
Latvia (LSS)	710	24.8	9.7	1.8	0.5	8.8	1.3	0.0	6.4	0.0	29.5	0.0	17.3	53.2	34.5	2.1	15.1	33.4	35.5
Lithuania	586	23.2	1.4	11.0	0.4	4.7	3.1	0.0	12.2	0.0	22.1	0.0	21.9	56.0	24.6	1.4	20.5	26.9	22.4
Macedonia, Rep. of	1010	15.7	1.2	3.0	1.2	2.5	3.2	0.0	7.3	0.0	24.5	0.0	41.3	34.1	16.9	6.5	34.8	17.9	16.0
Malaysia	1383	17.8	1.5	16.8	1.5	7.3	0.8	0.0	3.0	0.0	35.1	0.0	16.1	48.8	19.3	0.7	15.4	21.3	16.7
Moldova	932	15.6	0.6	3.2	0.6	1.9	7.8	0.0	1.9	0.0	49.4	0.0	19.0	31.6	16.2	3.7	15.3	15.2	17.6
Morocco	1370	2.2	0.2	0.7	0.4	0.5	6.7	0.0	10.6	0.0	38.8	0.0	39.8	21.4	2.5	7.6	32.2	2.3	2.5
Netherlands	734	24.5	1.0	20.0	3.2	14.1	0.7	0.0	1.1	0.0	32.1	0.0	3.2	64.7	25.5	0.1	3.2	27.3	23.5
New Zealand	907	17.9	0.1	1.5	2.8	17.3	0.3	5.3	0.4	2.4	39.6	0.1	12.4	45.5	18.0	0.2	12.2	19.8	16.2
Philippines	1641	2.7	0.0	2.1	0.5	1.3	0.5	0.0	0.0	0.0	58.7	0.0	34.2	7.1	2.8	1.3	32.8	3.4	2.1
Romania	855	18.7	1.6	9.6	1.2	7.0	1.3	0.0	3.3	0.0	25.5	0.0	31.7	42.8	20.3	2.6	29.1	19.6	21.1
Russian Federation	1084	30.1	0.4	10.4	1.1	9.9	5.9	0.0	4.5	0.0	18.7	0.0	19.1	62.3	30.5	2.7	16.4	31.2	29.7
Singapore	1250	55.0	1.6	9.4	1.7	12.7	0.2	0.0	1.1	0.0	15.8	0.0	2.5	81.6	56.5	0.2	2.4	57.1	56.0
Slovak Republic	886	34.9	1.5	11.0	1.8	5.7	1.2	0.0	5.5	0.0	21.8	0.0	16.6	61.6	36.4	1.3	15.3	38.1	34.8
Slovenia	782	34.3	1.5	9.8	3.7	12.0	0.1	0.0	1.6	0.0	26.4	0.0	10.6	63.0	35.9	0.1	10.4	40.6	30.7
South Africa	2075	1.0	0.2	0.8	0.2	1.2	1.2	0.0	16.2	0.0	43.3	0.0	35.9	20.8	1.2	5.5	30.4	1.3	1.1
Thailand	1442	20.5	1.0	2.2	0.3	6.7	1.4	0.0	5.9	0.0	43.5	0.0	18.6	37.9	21.5	0.6	18.0	25.5	16.6
Tunisia	1261	8.3	0.6	1.3	0.4	4.1	4.2	0.0	16.7	0.0	44.6	0.0	19.8	35.6	8.8	4.5	15.3	6.9	10.9
Turkey	1957	9.8	0.7	3.5	0.4	3.0	2.6	0.0	28.9	0.0	30.7	0.0	20.2	49.0	10.5	1.7	18.6	10.8	10.3
United States	2229	24.8	0.8	6.0	2.1	13.9	0.4	0.0	0.4	0.0	44.0	0.0	7.5	48.5	25.6	0.6	6.9	24.4	26.8
International Avg.	.	22.6	1.5	6.4	1.7	7.6	2.7	0.1	5.7	0.3	34.5	0.0	16.9	48.3	24.1	1.9	15.0	24.8	23.3

V1 = % Scoring 1 or better V2 = % Scoring 2 or better V3 = % Scoring 3 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent



Mathematics: Fractions and Number Sense  
 Label: Ratio of nitrate to total fertilizer ( M022241 - V03 )  
 Item Type = MC Key = D

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	1025	7.1	10.9	32.5	48.3	1.1	48.3	0.0	0.5	0.6	51.2	45.4
Belgium (Flemish)	1314	8.3	11.7	24.5	54.0	1.5	54.0	0.2	0.3	0.9	52.6	55.5
Bulgaria	825	7.9	16.8	27.2	40.1	8.0	40.1	0.0	3.6	4.4	42.1	37.9
Canada	2187	8.0	8.0	27.2	55.3	1.6	55.3	0.0	0.5	1.0	57.6	53.2
Chile	1477	18.1	13.8	26.2	21.7	20.3	21.7	0.0	13.1	7.2	22.8	20.6
Chinese Taipei	1430	5.0	5.2	15.2	74.3	0.3	74.3	0.0	0.1	0.2	76.9	71.8
Cyprus	764	9.9	19.1	29.0	40.1	1.9	40.1	0.1	0.3	1.5	40.2	39.9
Czech Republic	862	8.8	8.7	46.4	30.5	5.7	30.5	0.1	1.6	4.0	33.4	27.7
England	741	14.6	11.3	28.5	41.6	4.0	41.6	0.1	2.2	1.7	45.4	38.1
Finland	724	3.5	5.8	25.1	64.6	1.0	64.6	0.0	0.4	0.6	65.6	63.6
Hong Kong, SAR	1286	2.8	6.7	15.8	73.8	0.9	73.8	0.1	0.2	0.7	76.7	71.0
Hungary	790	8.3	11.7	23.6	50.3	6.3	50.3	0.0	2.2	4.1	51.8	48.9
Indonesia	1467	12.6	13.5	26.6	42.7	4.6	42.7	0.1	1.4	3.1	45.5	39.9
Iran, Islamic Rep.	1331	9.8	17.8	33.2	34.7	4.5	34.7	0.0	1.8	2.7	36.6	33.4
Israel	1042	11.4	16.1	26.6	39.8	6.1	39.8	0.1	2.7	3.3	35.6	43.9
Italy	827	9.9	15.1	21.6	46.8	6.5	46.8	0.3	2.1	4.1	47.2	46.4
Japan	1200	3.8	8.0	26.4	61.3	0.6	61.3	0.1	0.2	0.3	59.9	62.6
Jordan	1269	15.1	20.6	25.6	36.0	2.6	36.0	0.0	0.6	2.0	39.4	32.9
Korea, Rep. of	1527	3.7	3.9	7.7	84.3	0.4	84.3	0.0	0.1	0.3	84.5	84.1
Latvia (LSS)	710	9.4	15.0	32.6	35.5	7.5	35.5	0.2	2.8	4.5	33.8	37.1
Lithuania	586	16.3	9.9	40.8	23.2	9.9	23.2	0.0	2.2	7.7	20.9	25.3
Macedonia, Rep. of	1010	11.9	16.3	29.0	25.9	16.9	25.9	0.2	7.6	9.1	27.7	24.3
Malaysia	1383	7.0	8.6	19.4	62.4	2.5	62.4	0.1	0.9	1.5	66.9	56.9
Moldova	931	16.6	21.9	20.0	33.7	7.9	33.7	0.1	4.4	3.3	35.0	32.0
Morocco	1371	25.5	29.1	15.8	15.5	14.1	15.5	0.8	7.9	5.3	15.1	15.6
Netherlands	734	3.2	8.8	13.4	74.3	0.3	74.3	0.0	0.1	0.1	71.4	77.5
New Zealand	907	14.5	15.4	24.0	44.4	1.8	44.4	0.0	0.4	1.4	48.1	40.7
Philippines	1641	23.9	22.5	29.1	21.4	3.1	21.4	0.2	1.9	1.1	22.5	20.1
Romania	855	11.8	16.1	24.0	40.4	7.6	40.4	0.3	3.3	4.0	43.2	37.3
Russian Federation	1084	7.5	10.5	26.9	45.9	9.2	45.9	0.1	3.3	5.7	48.2	43.7
Singapore	1250	2.0	3.0	7.1	87.3	0.6	87.3	0.0	0.2	0.4	88.9	85.8
Slovak Republic	886	6.7	10.0	40.7	36.7	5.8	36.7	0.0	1.7	4.1	34.5	38.9
Slovenia	782	7.6	12.5	24.5	53.2	2.2	53.2	0.1	0.1	1.9	54.3	51.9
South Africa	2075	25.0	27.7	25.1	14.7	7.6	14.7	0.2	6.2	1.2	16.5	12.4
Thailand	1442	12.0	13.9	27.9	44.1	2.0	44.1	0.0	0.9	1.2	47.9	39.6
Tunisia	1262	14.6	16.5	31.5	29.3	8.1	29.3	0.6	4.9	2.6	25.8	33.0
Turkey	1957	16.8	18.0	25.5	35.0	4.8	35.0	0.0	2.0	2.8	36.5	33.9
United States	2229	5.8	15.0	23.2	54.8	1.3	54.8	0.0	0.6	0.6	54.9	54.7
International Avg.	.	10.7	13.6	25.5	45.2	5.0	45.2	0.1	2.2	2.7	46.2	44.1

DIFF = Item Difficulty      Other Incorrect = Sum of invalid, not reached and omitted  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Algebra  
 Label: Sequence of figures with circles ( M022262A - V04A )  
 Item Type = EX Key = X

COUNTRY	N	10	70	71	79	99	V1	NOT	ED	OMIT	1.GIRL	2.BOY
								REACH			% Right	% Right
Australia	1025	80.6	8.7	1.8	6.1	2.8	80.6	0.6	2.2	82.1	79.2	
Belgium (Flemish)	1314	81.2	12.5	0.5	4.3	1.6	81.2	0.3	1.2	81.1	81.3	
Bulgaria	825	68.4	11.4	3.8	3.7	12.7	68.4	4.3	8.4	72.1	64.4	
Canada	2187	80.8	8.5	0.6	7.8	2.2	80.8	0.9	1.3	80.3	81.2	
Chile	1477	35.2	25.5	6.8	7.0	25.4	35.2	15.6	9.8	34.4	36.1	
Chinese Taipei	1430	87.2	5.0	0.3	5.4	2.1	87.2	0.1	2.0	87.6	86.8	
Cyprus	770	64.0	20.1	2.8	8.5	4.7	64.0	0.3	4.4	67.6	60.5	
Czech Republic	862	78.8	12.0	1.4	4.1	3.8	78.8	1.8	2.0	79.4	78.1	
England	741	81.5	8.7	0.2	5.8	3.7	81.5	2.3	1.3	83.3	79.8	
Finland	724	79.9	12.7	0.7	4.1	2.5	79.9	0.7	1.8	83.4	76.2	
Hong Kong, SAR	1285	87.2	2.5	0.1	5.5	4.7	87.2	0.3	4.4	88.6	85.7	
Hungary	790	77.2	10.7	2.7	5.5	3.8	77.2	2.4	1.4	79.8	74.8	
Indonesia	1468	46.8	28.1	4.6	9.7	10.8	46.8	2.5	8.3	47.7	46.0	
Iran, Islamic Rep.	1331	35.6	24.4	2.5	25.6	11.9	35.6	2.6	9.3	36.4	35.1	
Israel	1043	62.5	14.1	3.7	8.8	10.8	62.5	3.3	7.5	63.6	61.5	
Italy	827	66.2	18.0	4.4	5.1	6.3	66.2	2.7	3.6	67.8	64.5	
Japan	1200	91.4	4.5	0.7	2.6	0.8	91.4	0.2	0.6	90.8	91.9	
Jordan	1267	40.5	28.0	6.3	18.7	6.4	40.5	1.2	5.2	44.4	37.1	
Korea, Rep. of	1526	91.4	3.8	0.3	3.0	1.5	91.4	0.1	1.4	90.5	92.4	
Latvia (LSS)	709	62.7	18.8	4.7	6.9	6.9	62.7	3.4	3.5	62.9	62.3	
Lithuania	586	64.3	18.0	5.3	5.1	7.3	64.3	3.2	4.1	64.1	64.4	
Macedonia, Rep. of	1010	51.0	13.1	5.0	13.2	17.7	51.0	8.5	9.2	52.7	49.3	
Malaysia	1383	72.8	14.0	1.1	6.7	5.3	72.8	1.5	3.9	74.1	71.1	
Moldova	931	63.7	11.6	2.7	6.3	15.7	63.7	4.9	10.8	65.8	61.1	
Morocco	1369	19.6	29.5	7.0	19.7	24.2	19.6	9.2	15.0	21.7	18.0	
Netherlands	734	83.0	11.7	0.5	4.2	0.5	83.0	0.1	0.4	82.6	83.4	
New Zealand	906	80.5	9.4	0.5	6.7	2.9	80.5	0.6	2.3	85.4	75.8	
Philippines	1641	26.6	24.1	5.3	18.1	25.9	26.6	1.9	24.0	27.0	26.2	
Romania	852	57.3	20.0	5.2	5.5	12.1	57.3	3.6	8.5	58.3	56.2	
Russian Federation	1084	67.5	15.3	2.3	4.2	10.7	67.5	4.6	6.2	70.7	64.3	
Singapore	1250	89.3	6.4	0.6	2.6	1.2	89.3	0.3	0.9	89.1	89.6	
Slovak Republic	886	76.8	10.9	1.7	4.5	6.1	76.8	2.3	3.8	76.7	76.9	
Slovenia	782	77.2	17.0	1.1	4.0	0.8	77.2	0.1	0.6	78.8	75.4	
South Africa	2075	14.1	13.3	6.3	25.6	40.7	14.1	6.9	33.8	15.4	12.5	
Thailand	1442	53.6	20.7	3.7	13.1	8.8	53.6	0.9	7.9	54.9	52.1	
Tunisia	1262	39.4	35.2	4.7	11.4	9.2	39.4	5.7	3.5	36.2	42.9	
Turkey	1957	42.8	21.7	6.0	9.6	19.9	42.8	2.6	17.3	48.8	38.4	
United States	2229	72.6	11.2	1.0	9.6	5.6	72.6	0.7	4.9	74.4	70.9	
International Avg.	.	64.5	15.3	2.9	8.4	8.9	64.5	2.7	6.2	65.8	63.2	

V1 = % Scoring 1 or better V2 = % Scoring 2 or better V3 = % Scoring 3 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Algebra  
 Label: Sequence of figures with circles ( M022262B - V04B )  
 Item Type = EX Key = X

COUNTRY	N	10	70	71	79	99	V1	NOT	ED	OMIT	1.GIRL	2.BOY
								REACH			% Right	% Right
Australia	1025	70.7	2.9	1.9	19.8	4.7	70.7	1.6	3.1	71.5	69.9	
Belgium (Flemish)	1314	69.6	2.3	2.2	22.9	3.0	69.6	0.3	2.7	68.6	70.7	
Bulgaria	825	53.7	2.1	2.3	20.1	21.7	53.7	10.9	10.8	57.5	49.6	
Canada	2187	72.1	3.0	1.0	20.4	3.4	72.1	1.7	1.7	73.3	71.0	
Chile	1477	24.4	2.6	2.9	34.3	35.7	24.4	22.8	12.9	23.3	25.5	
Chinese Taipei	1430	81.2	1.7	1.3	14.5	1.3	81.2	0.9	0.4	81.6	80.8	
Cyprus	770	53.0	3.4	2.6	31.8	9.3	53.0	3.2	6.1	57.9	48.3	
Czech Republic	862	64.4	2.9	2.0	20.8	9.8	64.4	3.5	6.4	63.5	65.3	
England	741	67.8	3.2	1.9	21.9	5.2	67.8	3.4	1.8	70.6	65.2	
Finland	724	62.4	5.0	2.9	26.6	3.1	62.4	1.9	1.2	62.9	62.0	
Hong Kong, SAR	1285	82.9	1.9	0.5	11.2	3.5	82.9	2.5	1.1	84.7	81.2	
Hungary	790	65.6	1.6	2.3	20.2	10.3	65.6	3.7	6.6	69.8	61.4	
Indonesia	1468	38.3	2.5	2.7	43.9	12.6	38.3	6.6	6.0	40.1	36.5	
Iran, Islamic Rep.	1331	24.5	3.9	4.0	49.9	17.7	24.5	9.1	8.6	24.6	24.4	
Israel	1043	51.6	1.7	2.8	27.4	16.5	51.6	9.6	6.8	52.7	50.6	
Italy	827	51.7	2.8	4.8	26.9	13.8	51.7	5.7	8.2	51.7	51.7	
Japan	1200	83.0	2.7	1.5	11.6	1.3	83.0	0.5	0.7	82.1	83.9	
Jordan	1267	29.6	2.4	1.9	55.6	10.5	29.6	3.4	7.1	32.3	27.3	
Korea, Rep. of	1526	85.7	1.4	0.8	10.5	1.6	85.7	1.1	0.5	84.5	86.9	
Latvia (LSS)	709	50.0	1.7	0.9	34.0	13.4	50.0	5.9	7.5	48.9	50.9	
Lithuania	586	47.0	2.4	2.5	32.0	16.1	47.0	6.6	9.5	49.3	44.8	
Macedonia, Rep. of	1010	40.6	2.1	2.1	26.8	28.4	40.6	15.1	13.3	41.6	39.7	
Malaysia	1383	63.7	3.3	1.9	23.4	7.7	63.7	4.1	3.7	63.7	63.6	
Moldova	931	52.4	1.1	2.0	24.2	20.2	52.4	12.7	7.5	56.5	47.3	
Morocco	1369	11.6	2.2	2.8	49.5	33.9	11.6	18.5	15.4	12.5	10.9	
Netherlands	734	67.5	2.3	1.7	27.6	1.0	67.5	0.3	0.7	65.5	69.8	
New Zealand	906	64.3	4.3	2.3	26.4	2.8	64.3	1.4	1.4	67.3	61.3	
Philippines	1641	20.8	2.1	2.1	56.2	18.7	20.8	10.3	8.4	20.3	21.3	
Romania	853	46.7	1.8	1.8	33.2	16.5	46.7	9.2	7.3	48.6	44.6	
Russian Federation	1084	54.0	3.5	1.5	24.4	16.5	54.0	9.3	7.2	57.2	50.8	
Singapore	1250	81.7	2.2	1.4	12.7	1.9	81.7	1.0	0.9	82.2	81.1	
Slovak Republic	886	67.3	2.6	1.3	18.4	10.4	67.3	5.1	5.2	66.9	67.7	
Slovenia	782	65.6	3.5	3.3	23.4	4.3	65.6	0.8	3.5	70.1	60.6	
South Africa	2075	9.1	1.5	1.5	71.0	17.0	9.1	12.1	4.9	9.6	8.6	
Thailand	1442	46.2	2.3	2.4	44.6	4.4	46.2	3.2	1.3	47.5	44.7	
Tunisia	1261	29.1	3.9	5.3	41.9	19.8	29.1	9.1	10.7	26.2	32.3	
Turkey	1957	32.6	2.6	2.7	40.5	21.7	32.6	12.4	9.3	37.4	29.1	
United States	2229	62.4	3.8	1.8	28.1	4.0	62.4	2.5	1.4	63.8	61.1	
International Avg.	.	53.8	2.6	2.2	29.7	11.7	53.8	6.1	5.6	55.0	52.7	

V1 = % Scoring 1 or better V2 = % Scoring 2 or better V3 = % Scoring 3 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent

Mathematics: Algebra  
 Label: Sequence of figures with circles ( M022262C - V04C )  
 Item Type = EX Key = X

COUNTRY	N	NOT REACH ED										OMIT	1.GIRL	2.BOY	
		20	21	29	10	11	19	79	99	V1	V2		% Right	% Right	
Australia	1025	1.0	37.3	0.9	2.5	3.7	0.6	30.4	23.6	46.0	39.3	4.7	18.9	40.6	37.9
Belgium (Flemish)	1314	4.2	39.3	0.9	1.9	4.7	1.1	35.0	12.9	52.1	44.4	3.0	10.0	41.6	47.3
Bulgaria	825	0.9	24.4	0.3	1.6	1.0	1.5	17.8	52.5	29.7	25.7	21.4	31.1	26.8	24.4
Canada	2187	1.2	40.4	1.7	0.9	2.4	1.0	36.6	15.8	47.6	43.3	3.3	12.5	44.0	42.8
Chile	1477	0.1	7.9	0.2	1.1	0.8	0.1	27.9	61.9	10.1	8.2	35.0	27.0	7.5	8.8
Chinese Taipei	1429	9.5	57.7	0.9	1.5	1.2	2.2	21.3	5.8	72.9	68.1	1.2	4.5	69.5	66.6
Cyprus	770	0.2	14.3	0.2	1.6	5.5	1.2	33.9	43.1	23.0	14.7	9.1	34.0	17.1	12.5
Czech Republic	862	0.2	32.7	0.8	1.8	1.8	0.9	29.5	32.3	38.2	33.8	9.6	22.6	35.1	32.5
England	741	1.3	33.0	0.5	1.4	3.5	0.6	37.4	22.3	40.2	34.8	5.1	17.3	32.8	36.6
Finland	724	0.1	25.7	3.9	1.2	4.2	1.4	41.3	22.3	36.4	29.7	2.8	19.5	31.5	27.8
Hong Kong, SAR	1285	1.7	47.6	7.4	9.8	2.0	0.8	17.4	13.4	69.2	56.7	3.5	9.8	57.4	55.9
Hungary	790	3.8	33.0	1.0	1.4	1.4	1.0	26.8	31.6	41.7	37.8	9.8	21.7	40.0	35.6
Indonesia	1467	0.7	22.5	0.4	1.0	0.7	1.2	49.5	24.1	26.4	23.5	12.0	12.0	24.9	22.1
Iran, Islamic Rep.	1331	1.3	5.9	0.3	0.8	1.2	0.8	44.8	44.9	10.4	7.6	17.2	27.6	8.3	7.0
Israel	1043	0.7	25.5	0.6	1.9	1.4	1.4	24.8	43.7	31.5	26.8	16.4	27.3	24.9	28.7
Italy	827	2.5	20.7	0.9	1.8	1.8	0.1	31.2	41.1	27.8	24.1	13.0	28.1	24.0	24.3
Japan	1200	0.4	62.1	3.4	5.4	0.8	0.9	15.9	11.2	73.0	65.9	1.2	10.0	66.1	65.6
Jordan	1266	1.9	10.2	0.4	1.7	0.7	0.2	52.1	32.8	15.1	12.5	9.1	23.7	13.3	11.8
Korea, Rep. of	1526	1.0	66.2	2.3	1.0	3.3	0.1	16.4	9.7	73.9	69.5	1.6	8.2	69.5	69.5
Latvia (LSS)	709	2.1	19.7	0.4	2.3	2.5	1.2	33.1	38.6	28.2	22.3	12.4	26.3	21.6	23.0
Lithuania	586	0.1	18.1	0.7	2.0	0.9	0.4	25.0	52.9	22.2	18.9	16.1	36.7	21.5	16.5
Macedonia, Rep. of	1010	5.3	6.9	1.0	5.6	0.2	1.9	21.6	57.5	20.9	13.2	27.7	29.8	13.4	13.0
Malaysia	1381	0.4	35.6	1.1	1.0	2.3	0.2	36.2	23.1	40.7	37.1	7.7	15.5	38.1	35.8
Moldova	931	12.8	13.0	0.0	6.1	0.6	0.5	21.9	45.1	32.9	25.8	20.0	25.2	30.1	20.5
Morocco	1369	1.3	1.5	0.1	1.0	0.4	0.2	30.1	65.4	4.5	2.9	31.8	33.7	2.6	3.0
Netherlands	734	12.7	34.2	0.8	3.4	4.3	1.2	32.5	10.9	56.6	47.7	1.0	9.8	47.2	48.3
New Zealand	906	0.7	29.8	0.6	1.0	4.8	0.9	40.0	22.2	37.8	31.2	2.7	19.5	38.1	24.4
Philippines	1641	0.0	8.5	0.0	0.5	0.7	0.3	37.2	52.8	9.9	8.5	17.7	35.2	9.1	7.8
Romania	849	2.8	16.2	0.1	3.7	1.2	0.8	29.1	46.1	24.8	19.1	15.7	30.4	19.6	18.5
Russian Federation	1084	0.9	25.0	0.9	3.7	0.9	0.6	27.0	40.9	32.1	26.8	16.2	24.7	31.0	22.5
Singapore	1250	1.6	61.8	1.2	0.8	2.8	0.3	23.5	8.1	68.4	64.5	1.9	6.2	63.8	65.2
Slovak Republic	886	4.3	26.2	0.8	5.0	2.0	1.6	22.7	37.4	39.9	31.3	10.0	27.4	31.2	31.4
Slovenia	782	0.5	35.8	0.3	1.7	2.6	0.7	34.1	24.4	41.6	36.5	4.1	20.3	39.5	33.3
South Africa	2075	0.6	2.6	0.1	0.5	0.3	0.0	33.6	62.2	4.2	3.4	16.0	46.2	4.5	1.9
Thailand	1442	8.9	16.1	0.2	3.2	0.1	0.4	53.8	17.3	28.8	25.2	4.4	12.9	27.7	22.1
Tunisia	1262	0.2	7.7	0.3	3.9	0.4	1.0	42.6	44.0	13.4	8.2	18.9	25.1	7.4	8.9
Turkey	1957	0.6	10.4	0.1	2.9	0.3	0.4	31.1	54.1	14.8	11.1	20.8	33.3	14.6	8.6
United States	2229	0.2	34.0	0.2	1.7	2.8	0.4	42.6	18.0	39.4	34.4	3.9	14.1	36.6	32.4
International Avg.	.	2.3	26.6	0.9	2.4	1.9	0.8	31.8	33.3	34.9	29.9	11.3	22.1	30.9	28.8

V1 = % Scoring 1 or better V2 = % Scoring 2 or better V3 = % Scoring 3 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent