COUNTRY ID=Australia SCALE=Data Rep., Analysis and Probability

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
B05	No	Multi-step graph problem: determine Sarah's relative height, then her height from graph.	60	2.1	57	2.5	63	2.3
C01	No	Shown graph (20 unit increments), which class collected 45 bottles?	85	1.5	84	2.1	86	1.5
D05	No	Shown bar graph, which two classes collected exactly 80 bottles?	76	1.7	73	2.5	79	2.4
F05	No	Shown temperature chart, when was the highest temperature recorded?	69	1.9	71	2.1	67	2.6
J03	Yes	Shown pie graph of how Mary spent her day, how much time did she spend on two categories combined?	63	3.6	59	4.8	68	4.3
K04	Yes	Add points from various rounds of a game to determine who won game and by how much.	41	2.9	44	3.9	38	4.4
L01	Yes	Given graph showing numbers of trees, how many trees does each symbol represent?	35	4.3	37	4.9	32	5.1
L02	Yes	Given bags containing different numbers of marbles, determine greatest chance of choosing red marble.	52	4.1	49	4.3	54	5.2
M01	Yes	Given several hexagons with various parts shaded, find greatest chance of stone landing on shaded area.	72	3.4	74	4.0	69	3.9
M02	Yes	Multi-step word problem: add 6 one-digit numbers and subtract from 60.	30	2.6	31	3.7	29	3.7
S01	Yes	Given table of frequencies, complete bar graph for same information.	29	2.1	26	2.5	32	3.1
T01A	Yes	Read simple information from bar graph.	71	2.4	72	2.7	69	2.9
T01B	Yes	Read information from bar graph and add to find a total.	13	1.5	13	2.1	14	1.8

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Australia SCALE=Fractions and Proportionality

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
A01	No	In which figure are one-half of the dots black?	76	1.2	77	1.6	76	1.5
A02	No	Determine total number from ratio and one number.	55	1.1	54	1.5	56	1.7
B09	No	What is the sum of 2.5 and 3.8?	42	1.8	46	2.5	38	2.2
C03	No	Which figure shows 2/3 of the square shaded?	46	2.0	43	3.0	48	2.8
D08	No	Subtract: 4.03 - 1.15.	28	1.6	30	2.5	27	1.9
D09	No	Which of the following diagram has three out of every four squares shaded?	41	1.6	43	2.9	39	2.5
E04	No	Which of the following numbers means 7/10?	27	1.7	28	1.9	25	2.5
F06	No	Janis ate 1/2 cake, Maija ate 1/4, mother ate 1/4, how much remains?	61	2.1	61	2.4	62	3.5
G01	No	Given map and legend, how far apart are two cities?	33	1.7	36	2.3	29	2.1
I02	Yes	Which of the following word expressions is the same as .4?	22	2.1	22	3.2	22	2.3
I05	Yes	If five tomatoes make 1/2 liter of sauce, how much sauce do 15 tomatoes make?	49	3.0	54	4.1	44	4.0
I08	Yes	Shown four diagrams with various fractions shaded, which two represent the same fraction?	45	3.1	44	4.2	46	3.9
J07	Yes	Shown a square divided into 9 squares, 5 of which are shaded, what fraction of the figure is shaded?	54	2.6	51	3.5	58	3.7
K09	Yes	54 marbles are equally divided into 6 bags. How many marbles in 2 bags?	34	2.6	33	3.3	35	4.2
M05	Yes	Given partly shaded figure, which of the following numbers represents the shaded part?	30	2.4	32	3.1	28	3.3
S03	Yes	Solve word problem: 96.4-33.2	8	1.2	7	1.7	9	1.5
S04	Yes	Solve word problem: 10/30 = ?/90.	37	2.6	36	3.0	38	3.7
T04A	Yes	Does 10 girls and 20 boys mean one girl for every two boys? Explain.	21	2.0	16	2.5	25	2.6
T04B	Yes	Does 10 girls and 20 boys mean half of all students are girls? Explain.	11	1.2	8	1.4	14	2.0
U02	Yes	Write a fraction that is larger than 2/7.	44	2.9	42	3.7	45	3.6
U03A	Yes	Solve word problem using proportions: 3/10 = 9/?	49	2.0	52	3.4	46	2.4
U03B	Yes	Solve word problem using proportions: 1/3 = 9/?	29	2.4	32	3.4	25	2.5
U03C	Yes	Solve two proportions and compare results.	71	2.2	68	2.9	73	2.4
V01	Yes	Is 1/3 less than 1/4? Shade appropriate parts of a circle to demonstrate.	13	1.6	15	3.2	11	1.7

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Australia SCALE=Geometry

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
B06	No	Which of these solids has both a flat surface and a curved surface?	70	1.9	67	2.8	72	1.9
D07	No	Which two figures are congruent?	79	1.4	79	2.1	80	2.1
F09	No	Which of the following must be true of a triangle?	69	1.4	66	2.0	72	1.7
H05	No	Shown diagram of a figure made of blocks, which of the following could be the figure after it is turned?	41	1.2	41	2.2	42	1.9
I01	Yes	Shown map with city blocks, and given directions to school, locate school on map.	47	2.8	50	4.4	45	3.6
I06	Yes	Which of the following figures is made with straight sides only?	79	2.5	81	3.4	77	3.5
J01	Yes	Shown hexagon divided into six triangles, identify smaller shape. (recognize triangles)	89	1.7	86	3.4	93	1.6
J02	Yes	Shown several drawings with a line through each, which does not show a line of symmetry?	72	3.5	66	4.7	77	3.6
K01	Yes	Shown figure with overlapping shapes, which number is in square and circle, but not in triangle?	63	2.8	60	4.0	66	3.5
K08	Yes	Which of the following rectangles is not divided into 4 equal parts?	70	2.9	71	4.3	70	3.9
L03	Yes	Shown "game board" graph, which object is located at (2,D)?	86	2.6	82	3.8	89	3.1
L05	Yes	Shown diagram of cube with one edge labeled, how many edges does the cube have?	44	3.3	46	4.5	42	3.5
M04	Yes	Given explanation of how grid works, give the coordinates of a particular point.	38	2.8	37	4.2	39	3.9
T05	Yes	Shown picture of folded paper with shape cut out, draw picture of cut-out when unfolded.	61	2.7	60	3.6	63	2.8

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Australia SCALE=Measurement, Estimation, & Number Sense

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
A05	No	Which of these figures has the largest area?	80	1.0	81	1.2	79	1.3
B07	No	Word problem: best estimate of 84 x 57.	32	1.4	34	1.9	31	2.2
C02	No	Find volume of a stack of 5 cubes.	56	1.7	54	2.6	58	1.9
D06	No	How many degrees did temperature rise from minus 3 to 5?	43	1.7	48	2.4	38	2.6
E01	No	Shown calendar, what date is three weeks after December 2?	65	1.7	63	2.3	68	2.2
E03	No	Which of the following numbers would be rounded to 600 when rounded to the nearest hundred?	64	2.0	67	2.2	61	3.0
F08	No	Which units would be best to measure the weight (mass) of an egg?	54	2.4	57	2.3	52	3.6
G02	No	Which of the following could be the weight (mass) of an adult?	70	1.8	69	2.7	72	2.6
H06	No	Shown 6 x 4 rectangle, which of the following expressions gives the perimeter of the rectangle?	42	2.2	46	2.6	38	2.5
J06	Yes	Which of the following weight (mass) measures is the largest?	63	3.0	60	4.6	66	4.5
J08	Yes	Word problem: best estimate of 57 + 62 + 59.	41	2.8	38	4.0	45	3.8
K05	Yes	About how many centimeters is this picture of a pencil?	68	2.5	71	4.7	66	4.3
K07	Yes	A 20 cm wire is formed into a rectangle with width 4cm. What is the length?	24	2.6	25	3.6	24	3.9
L06	Yes	Given 1 clothespin = 9.2 g, which is the best estimate of the weight (mass) of 1000?	45	2.6	45	4.9	45	4.1
L08	Yes	Given number of paces in which each of several children cross the room, who had the longest pace?	9	1.4	12	2.4	6	1.4
M07	Yes	Which of the following would most likely be measured in milliliters?	32	3.1	31	3.7	32	4.2
S05	Yes	Given picture of a paper clip, about how many lengths of the clip is the length of this line?	48	2.1	46	2.8	50	3.0
T03	Yes	Mr. Brown talks a 1 hour and 30 minute walk and returns at 7:00. At what time did he start?	43	2.5	43	2.8	43	3.0
U01	Yes	Given a triangle and large irregular figure, how many triangles will cover the figure?	38	2.5	39	4.3	37	3.3
V05	Yes	How many millimeters are in a meter?	33	2.5	37	3.1	29	2.7

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Australia SCALE=Patterns, Relations and Functions

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
G04	No	Given symbol for number of magazines read in a week, select expression for number read in 6 weeks.	44	2.1	46	2.6	41	3.4
H08	No	Given number pattern, what are the next three numbers?	73	1.7	74	2.3	72	2.3
I07	Yes	Given a 130 page book, and 78 pages read, which expression gives the number of pages remaining?	42	2.8	40	3.7	45	3.8
J05	Yes	Determine common operation between four pairs of numbers.	25	2.3	26	3.0	25	3.5
K03	Yes	Which pair of numbers follows the rule 'multiply by 5'?	37	2.6	35	4.6	40	3.4
K06	Yes	Extend pattern of figures to determine number of tiles in the sixth figure.	51	2.8	50	4.2	53	3.8
L04	Yes	Shown pattern of shapes, which of the following is arranged in the same pattern?	64	4.1	60	4.4	67	4.7
L09	Yes	Given statements about the relative ages of three children, which statement must also be true?	59	2.9	64	4.0	55	3.5
M09	Yes	4 x _ <17: Which number could go in the blank to make the sentence true?	46	3.3	55	4.6	37	4.2
U04	Yes	Explain operation used to find next number in a pattern.	54	2.2	60	3.1	48	2.6

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Australia SCALE=Whole Numbers

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
A03	No	Find number of pencils given pencils/box and number of boxes.	37	1.3	38	1.7	36	1.6
A04	No	Find number of small squares given groupings of hundreds, tens, and ones.	84	0.9	85	0.9	82	1.3
B08	No	Which addition expression has the same value as 342?	78	1.6	80	2.1	76	1.6
C04	No	Which expression shows how long it will take to wash 8 windows at 4 minutes/window?	67	2.0	67	2.8	67	2.4
E02	No	Which digit is in the hundreds place in 2345?	66	2.0	67	2.7	66	2.0
F07	No	What number equals 3 ones + 5 tens + 4 hundreds + 60 thousands?	57	1.8	61	2.5	53	2.3
G03	No	Which of the following is a name for 9740?	87	1.1	87	1.5	87	1.5
H07	No	Determine the relative magnitude of three-digit numbers when digits are rearranged.	39	2.2	41	2.6	37	2.7
H09	No	Which number is equal to eight tens plus nine tens?	62	1.9	63	2.6	61	3.2
I03	Yes	Which of the numbers below, when subtracted from 900, yields an answer greater than 300?	42	2.6	41	3.4	43	4.3
I04	Yes	What is 3 times 23?	79	2.1	78	3.1	79	3.6
I09	Yes	Subtract: 6000-2369.	23	2.6	20	3.2	26	3.7
J04	Yes	25 x 18 is more than 24 x 18. How much more?	35	2.7	39	4.1	31	3.9
J09	Yes	Given chart with consecutive numbers in rows, extend pattern to find the number in square.	76	2.3	71	3.8	81	2.6
K02	Yes	Add: 6971 + 5291	59	3.1	62	4.1	56	4.3
L07	Yes	In which of the following pairs of numbers is the 2nd number 100 more than the 1st?	28	2.9	33	4.4	24	3.9
M03	Yes	Recognize symmetric property of multiplication: 7 x _ is the same as what?	54	2.7	55	3.8	52	4.1
M06	Yes	John wanted to add 1463 + 319, but entered 1263 + 319. How could he fix his mistake?	59	2.7	66	4.2	51	4.4
M08	Yes	Which of the following four-digit numbers is the largest?	78	2.4	81	3.0	76	3.7
S02	Yes	Complete number sentence: 2000+?+30+9=2739.	41	2.7	44	3.5	38	4.0
T02	Yes	Arrange four digits to make the smallest possible whole number.	43	2.2	42	3.1	43	2.8
U05	Yes	Write addition fact as a multiplication fact.	57	2.4	59	3.5	55	2.8
V02	Yes	Write the number that is 1000 more than 56,821.	29	1.9	39	2.6	21	2.3
V03	Yes	What is 5 less than 203?	53	2.2	61	2.8	46	3.1
V04A	Yes	Arrange 4 digits as addition of 2 2-digit numbers. Which sum is greater? How do you know?	16	1.5	16	2.5	15	1.9
V04B	Yes	Arrange 4 digits as addition of 2 2-digit numbers. Find arrangement with sum greater than either of above.	35	2.2	37	3.1	34	2.9

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Austria SCALE=Data Rep., Analysis and Probability

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
B05	No	Multi-step graph problem: determine Sarah's relative height, then her height from graph.	61	1.9	60	2.4	63	2.9
C01	No	Shown graph (20 unit increments), which class collected 45 bottles?	77	1.8	79	2.4	75	2.7
D05	No	Shown bar graph, which two classes collected exactly 80 bottles?	64	1.8	63	2.7	66	2.0
F05	No	Shown temperature chart, when was the highest temperature recorded?	67	1.6	65	2.8	70	2.4
J03	Yes	Shown pie graph of how Mary spent her day, how much time did she spend on two categories combined?	68	2.8	68	3.8	68	4.3
K04	Yes	Add points from various rounds of a game to determine who won game and by how much.	47	3.5	51	4.4	43	5.6
L01	Yes	Given graph showing numbers of trees, how many trees does each symbol represent?	31	3.1	36	5.1	25	4.1
L02	Yes	Given bags containing different numbers of marbles, determine greatest chance of choosing red marble.	38	3.8	42	5.2	34	4.4
M01	Yes	Given several hexagons with various parts shaded, find greatest chance of stone landing on shaded area.	71	3.3	68	4.7	73	3.9
M02	Yes	Multi-step word problem: add 6 one-digit numbers and subtract from 60.	55	3.2	54	5.2	56	4.6
S01	Yes	Given table of frequencies, complete bar graph for same information.	16	2.1	19	3.0	13	2.1
T01A	Yes	Read simple information from bar graph.	60	2.3	62	3.3	59	3.4
T01B	Yes	Read information from bar graph and add to find a total.	15	1.9	16	3.5	13	2.6

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Austria SCALE=Fractions and Proportionality

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
A01	No	In which figure are one-half of the dots black?	91	0.6	91	1.0	91	0.9
A02	No	Determine total number from ratio and one number.	55	1.6	55	2.6	55	1.6
B09	No	What is the sum of 2.5 and 3.8?	44	1.8	50	2.4	38	3.0
C03	No	Which figure shows 2/3 of the square shaded?	28	2.0	31	3.2	24	2.4
D08	No	Subtract: 4.03 - 1.15.	59	2.3	55	3.1	63	2.9
D09	No	Which of the following diagram has three out of every four squares shaded?	36	2.1	34	3.2	38	2.4
E04	No	Which of the following numbers means 7/10?	18	2.5	21	4.0	15	2.0
F06	No	Janis ate 1/2 cake, Maija ate 1/4, mother ate 1/4, how much remains?	60	1.8	62	2.7	60	2.3
G01	No	Given map and legend, how far apart are two cities?	41	2.8	48	4.0	34	2.7
I02	Yes	Which of the following word expressions is the same as .4?	16	2.0	16	3.2	17	3.0
I05	Yes	If five tomatoes make 1/2 liter of sauce, how much sauce do 15 tomatoes make?	42	3.3	46	5.1	38	5.0
I08	Yes	Shown four diagrams with various fractions shaded, which two represent the same fraction?	58	4.1	64	5.3	51	4.9
J07	Yes	Shown a square divided into 9 squares, 5 of which are shaded, what fraction of the figure is shaded?	13	2.1	9	3.2	16	3.2
K09	Yes	54 marbles are equally divided into 6 bags. How many marbles in 2 bags?	29	2.5	28	3.9	31	4.3
M05	Yes	Given partly shaded figure, which of the following numbers represents the shaded part?	28	4.1	32	6.5	24	3.2
S03	Yes	Solve word problem: 96.4-33.2	7	1.5	6	1.7	8	2.2
S04	Yes	Solve word problem: 10/30 = ?/90.	28	2.3	30	2.7	27	3.6
T04A	Yes	Does 10 girls and 20 boys mean one girl for every two boys? Explain.	3	0.9	3	1.2	3	1.2
T04B	Yes	Does 10 girls and 20 boys mean half of all students are girls? Explain.	2	1.0	1	0.9	2	1.2
U02	Yes	Write a fraction that is larger than 2/7.	23	3.6	26	5.4	19	3.2
U03A	Yes	Solve word problem using proportions: 3/10 = 9/?	51	2.7	56	4.2	46	3.3
U03B	Yes	Solve word problem using proportions: 1/3 = 9/?	40	3.3	46	4.8	33	3.0
U03C	Yes	Solve two proportions and compare results.	66	2.7	66	4.4	66	2.7
V01	Yes	Is 1/3 less than 1/4? Shade appropriate parts of a circle to demonstrate.	8	3.3	11	5.6	5	1.7

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Austria SCALE=Geometry

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
B06	No	Which of these solids has both a flat surface and a curved surface?	23	2.1	24	3.5	22	1.9
D07	No	Which two figures are congruent?	84	1.2	84	2.1	86	1.8
F09	No	Which of the following must be true of a triangle?	57	2.2	56	3.2	58	2.8
H05	No	Shown diagram of a figure made of blocks, which of the following could be the figure after it is turned?	56	2.5	59	4.0	52	3.1
I01	Yes	Shown map with city blocks, and given directions to school, locate school on map.	58	3.5	60	5.1	58	4.2
I06	Yes	Which of the following figures is made with straight sides only?	62	2.6	66	4.4	56	4.5
J01	Yes	Shown hexagon divided into six triangles, identify smaller shape. (recognize triangles)	81	2.5	84	3.5	79	3.6
J02	Yes	Shown several drawings with a line through each, which does not show a line of symmetry?	57	3.7	56	4.9	57	5.4
K01	Yes	Shown figure with overlapping shapes, which number is in square and circle, but not in triangle?	57	3.3	60	4.9	54	4.2
K08	Yes	Which of the following rectangles is not divided into 4 equal parts?	61	3.6	61	5.3	61	4.5
L03	Yes	Shown "game board" graph, which object is located at (2,D)?	83	2.5	82	3.7	84	3.3
L05	Yes	Shown diagram of cube with one edge labeled, how many edges does the cube have?	33	4.0	38	5.5	28	4.8
M04	Yes	Given explanation of how grid works, give the coordinates of a particular point.	30	3.8	32	5.7	28	4.5
T05	Yes	Shown picture of folded paper with shape cut out, draw picture of cut-out when unfolded.	50	2.9	44	4.0	56	3.3

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Austria SCALE=Measurement, Estimation, & Number Sense

			Third Grade					
			Overall		Boys		Girls	
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
A05	No	Which of these figures has the largest area?	75	1.3	75	1.8	74	1.7
B07	No	Word problem: best estimate of 84 x 57.	33	2.3	34	3.0	32	2.6
C02	No	Find volume of a stack of 5 cubes.	62	2.3	66	2.8	59	3.1
D06	No	How many degrees did temperature rise from minus 3 to 5?	63	1.8	69	2.3	57	2.7
E01	No	Shown calendar, what date is three weeks after December 2?	67	1.8	66	2.8	68	2.0
E03	No	Which of the following numbers would be rounded to 600 when rounded to the nearest hundred?	41	2.2	46	4.0	37	2.5
F08	No	Which units would be best to measure the weight (mass) of an egg?	53	2.5	50	3.3	57	3.0
G02	No	Which of the following could be the weight (mass) of an adult?	86	1.6	88	1.7	83	2.3
H06	No	Shown 6 x 4 rectangle, which of the following expressions gives the perimeter of the rectangle?	66	2.4	69	3.3	64	3.0
J06	Yes	Which of the following weight (mass) measures is the largest?	84	2.2	86	3.5	82	3.2
J08	Yes	Word problem: best estimate of 57 + 62 + 59.	36	3.4	39	4.7	34	4.9
K05	Yes	About how many centimeters is this picture of a pencil?	77	2.7	81	3.6	74	4.3
K07	Yes	A 20 cm wire is formed into a rectangle with width 4cm. What is the length?	25	4.1	28	5.9	22	5.1
L06	Yes	Given 1 clothespin = 9.2 g, which is the best estimate of the weight (mass) of 1000?	44	3.6	47	5.2	40	4.8
L08	Yes	Given number of paces in which each of several children cross the room, who had the longest pace?	35	4.0	41	5.7	27	4.3
M07	Yes	Which of the following would most likely be measured in milliliters?	43	3.5	43	5.2	42	4.6
S05	Yes	Given picture of a paper clip, about how many lengths of the clip is the length of this line?	46	2.5	46	3.5	46	3.6
T03	Yes	Mr. Brown talks a 1 hour and 30 minute walk and returns at 7:00. At what time did he start?	46	2.8	51	3.5	42	4.2
U01	Yes	Given a triangle and large irregular figure, how many triangles will cover the figure?	54	2.3	55	3.9	52	3.2
V05	Yes	How many millimeters are in a meter?	53	2.6	58	3.5	48	3.3

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Austria SCALE=Patterns, Relations and Functions

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
G04	No	Given symbol for number of magazines read in a week, select expression for number read in 6 weeks.	49	2.7	50	4.0	47	3.5
H08	No	Given number pattern, what are the next three numbers?	56	2.2	58	3.6	54	2.9
I07	Yes	Given a 130 page book, and 78 pages read, which expression gives the number of pages remaining?	51	4.1	51	5.4	51	5.3
J05	Yes	Determine common operation between four pairs of numbers.	24	3.0	25	4.7	23	4.1
K03	Yes	Which pair of numbers follows the rule 'multiply by 5'?	26	3.3	31	4.6	22	4.4
K06	Yes	Extend pattern of figures to determine number of tiles in the sixth figure.	55	3.9	62	5.5	48	4.8
L04	Yes	Shown pattern of shapes, which of the following is arranged in the same pattern?	72	3.6	69	5.3	75	3.9
L09	Yes	Given statements about the relative ages of three children, which statement must also be true?	52	3.3	51	5.3	54	5.0
M09	Yes	4 x _ <17: Which number could go in the blank to make the sentence true?	57	3.2	57	5.0	56	4.9
U04	Yes	Explain operation used to find next number in a pattern.	41	2.8	40	4.5	43	3.3

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Austria SCALE=Whole Numbers

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                                                                                            Third Grade

                                                                      Overall        Boys         Girls

ITEM   REL   LABEL                                                     %    (se)     %    (se)     %    (se)
-----------------------------------------------------------------------------------------------------------
A03    No    Find number of pencils given pencils/box and number of boxes.        60   1.4   59   2.4   61   1.5
A04    No    Find number of small squares given groupings of hundreds, tens, and ones.   69   2.1   69   3.4   69   1.8
B08    No    Which addition expression has the same value as 342?                 83   1.7   83   2.0   82   2.1
C04    No    Which expression shows how long it will take to wash 8 windows at 4 minutes/window?   52   1.9   51   2.7   55   2.3
E02    No    Which digit is in the hundreds place in 2345?                        68   1.7   70   2.7   67   2.2
F07    No    What number equals 3 ones + 5 tens + 4 hundreds + 60 thousands?      66   1.9   67   2.5   65   3.1
G03    No    Which of the following is a name for 9740?                           91   1.0   91   1.5   92   1.3
H07    No    Determine the relative magnitude of three-digit numbers when digits are rearranged.   69   2.3   71   3.3   67   2.6
H09    No    Which number is equal to eight tens plus nine tens?                  65   2.2   68   3.2   62   2.7
I03    Yes   Which of the numbers below, when subtracted from 900, yields an answer greater than 300?   45   3.0   42   4.1   48   4.8
I04    Yes   What is 3 times 23?                                                  77   2.1   79   4.0   75   4.2
I09    Yes   Subtract:  6000-2369.                                               76   2.5   76   3.5   77   3.7
J04    Yes   25 x 18 is more than 24 x 18.  How much more?                        28   2.9   29   4.4   27   4.7
J09    Yes   Given chart with consecutive numbers in rows, extend pattern to find the number in square.   70   3.1   61   4.9   77   4.0
K02    Yes   Add:  6971 + 5291                                                    81   2.7   77   4.0   84   3.5
L07    Yes   In which of the following pairs of numbers is the 2nd number 100 more than the 1st?   37   3.3   44   5.0   28   4.2
M03    Yes   Recognize symmetric property of multiplication: 7 x _ is the same as what?   55   3.1   54   5.2   56   5.0
M06    Yes   John wanted to add 1463 + 319, but entered 1263 + 319.  How could he fix his mistake?   44   3.1   41   4.5   46   4.5
M08    Yes   Which of the following four-digit numbers is the largest?            81   3.3   77   5.8   85   2.6
S02    Yes   Complete number sentence:  2000+?+30+9=2739.                         45   2.6   48   3.8   41   3.4
T02    Yes   Arrange four digits to make the smallest possible whole number.      20   2.5   23   4.2   16   2.7
U05    Yes   Write addition fact as a multiplication fact.                        71   2.6   68   3.8   74   3.0
V02    Yes   Write the number that is 1000 more than 56,821.                      29   2.1   37   2.8   22   3.4
V03    Yes   What is 5 less than 203?                                             70   2.4   74   3.4   65   2.8
V04A   Yes   Arrange 4 digits as addition of 2 2-digit numbers.  Which sum is greater? How do you know?   14   1.5   10   1.7   18   2.0
V04B   Yes   Arrange 4 digits as addition of 2 2-digit numbers.  Find arrangement with sum greater than either of above.   35   3.3   35   5.0   36   3.2
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REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Canada SCALE=Data Rep., Analysis and Probability

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
B05	No	Multi-step graph problem: determine Sarah's relative height, then her height from graph.	62	1.3	60	1.7	65	2.0
C01	No	Shown graph (20 unit increments), which class collected 45 bottles?	84	1.4	86	1.6	83	1.5
D05	No	Shown bar graph, which two classes collected exactly 80 bottles?	75	1.5	74	1.7	76	2.2
F05	No	Shown temperature chart, when was the highest temperature recorded?	67	1.6	67	2.3	68	2.1
J03	Yes	Shown pie graph of how Mary spent her day, how much time did she spend on two categories combined?	66	2.6	67	3.6	67	3.3
K04	Yes	Add points from various rounds of a game to determine who won game and by how much.	31	2.8	33	4.1	28	3.5
L01	Yes	Given graph showing numbers of trees, how many trees does each symbol represent?	32	2.9	31	3.2	32	5.1
L02	Yes	Given bags containing different numbers of marbles, determine greatest chance of choosing red marble.	49	3.0	50	3.8	49	4.3
M01	Yes	Given several hexagons with various parts shaded, find greatest chance of stone landing on shaded area.	68	2.4	71	3.3	66	3.5
M02	Yes	Multi-step word problem: add 6 one-digit numbers and subtract from 60.	32	3.2	31	4.8	33	3.5
S01	Yes	Given table of frequencies, complete bar graph for same information.	24	1.7	26	2.2	22	3.2
T01A	Yes	Read simple information from bar graph.	82	1.3	81	1.8	83	1.6
T01B	Yes	Read information from bar graph and add to find a total.	23	2.2	24	3.2	23	2.6

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Canada SCALE=Fractions and Proportionality

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
A01	No	In which figure are one-half of the dots black?	74	0.7	76	1.0	72	1.3
A02	No	Determine total number from ratio and one number.	48	0.9	48	1.5	47	1.3
B09	No	What is the sum of 2.5 and 3.8?	37	1.4	39	1.7	35	1.8
C03	No	Which figure shows 2/3 of the square shaded?	37	1.5	38	1.9	36	1.8
D08	No	Subtract: 4.03 - 1.15.	43	1.9	43	2.1	42	2.6
D09	No	Which of the following diagram has three out of every four squares shaded?	38	1.4	40	2.1	35	1.9
E04	No	Which of the following numbers means 7/10?	31	1.8	27	2.1	36	2.0
F06	No	Janis ate 1/2 cake, Maija ate 1/4, mother ate 1/4, how much remains?	51	1.6	49	2.5	52	2.4
G01	No	Given map and legend, how far apart are two cities?	29	1.8	29	2.1	26	2.4
I02	Yes	Which of the following word expressions is the same as .4?	20	2.7	23	3.5	17	2.9
I05	Yes	If five tomatoes make 1/2 liter of sauce, how much sauce do 15 tomatoes make?	33	2.5	34	3.7	30	2.8
I08	Yes	Shown four diagrams with various fractions shaded, which two represent the same fraction?	45	3.1	46	3.7	45	4.4
J07	Yes	Shown a square divided into 9 squares, 5 of which are shaded, what fraction of the figure is shaded?	43	3.3	46	3.7	40	4.6
K09	Yes	54 marbles are equally divided into 6 bags. How many marbles in 2 bags?	21	2.2	20	3.2	24	2.7
M05	Yes	Given partly shaded figure, which of the following numbers represents the shaded part?	35	2.9	38	4.6	33	3.8
S03	Yes	Solve word problem: 96.4-33.2	9	1.2	10	2.2	8	1.2
S04	Yes	Solve word problem: 10/30 = ?/90.	27	2.1	30	2.4	26	3.2
T04A	Yes	Does 10 girls and 20 boys mean one girl for every two boys? Explain.	10	1.2	10	1.7	10	1.6
T04B	Yes	Does 10 girls and 20 boys mean half of all students are girls? Explain.	3	0.6	4	0.8	3	1.2
U02	Yes	Write a fraction that is larger than 2/7.	46	2.4	42	3.3	50	2.7
U03A	Yes	Solve word problem using proportions: 3/10 = 9/?	43	2.2	47	2.5	39	2.7
U03B	Yes	Solve word problem using proportions: 1/3 = 9/?	23	1.8	26	2.1	19	2.1
U03C	Yes	Solve two proportions and compare results.	67	1.9	66	2.1	68	2.5
V01	Yes	Is 1/3 less than 1/4? Shade appropriate parts of a circle to demonstrate.	8	1.4	7	1.1	9	2.3

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Canada SCALE=Geometry

                                                                                           Third Grade

                                                                              Overall   Boys   Girls

ITEM   REL LABEL   %   (se)   %   (se)   %   (se)

B06   No   Which of these solids has both a flat surface and a curved surface?   62   1.7   63   2.3   63   1.8
D07   No   Which two figures are congruent?   82   1.3   82   1.8   82   1.9
F09   No   Which of the following must be true of a triangle?   63   1.7   58   2.4   68   2.4
H05   No   Shown diagram of a figure made of blocks, which of the following could be the figure after it is turned?   39   1.5   39   1.6   39   2.2
I01   Yes Shown map with city blocks, and given directions to school, locate school on map.   49   3.3   50   3.9   48   4.2
I06   Yes Which of the following figures is made with straight sides only?   60   2.8   64   4.5   59   2.7
J01   Yes Shown hexagon divided into six triangles, identify smaller shape. (recognize triangles)   88   1.4   90   1.6   85   2.7
J02   Yes Shown several drawings with a line through each, which does not show a line of symmetry?   70   3.2   71   3.1   71   3.5
K01   Yes Shown figure with overlapping shapes, which number is in square and circle, but not in triangle?   66   2.3   66   2.9   64   3.3
K08   Yes Which of the following rectangles is not divided into 4 equal parts?   69   2.5   69   3.4   70   3.6
L03   Yes Shown "game board" graph, which object is located at (2,D)?   85   2.3   91   2.0   82   3.9
L05   Yes Shown diagram of cube with one edge labeled, how many edges does the cube have?   50   3.1   54   2.9   49   4.4
M04   Yes Given explanation of how grid works, give the coordinates of a particular point.   38   2.3   37   3.1   40   3.0
T05   Yes Shown picture of folded paper with shape cut out, draw picture of cut-out when unfolded.   53   2.8   52   2.9   55   3.4

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Canada SCALE=Measurement, Estimation, & Number Sense

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
A05	No	Which of these figures has the largest area?	76	1.0	78	1.2	75	1.1
B07	No	Word problem: best estimate of 84 x 57.	30	1.4	30	1.6	30	2.4
C02	No	Find volume of a stack of 5 cubes.	56	1.9	59	2.1	53	2.8
D06	No	How many degrees did temperature rise from minus 3 to 5?	42	1.7	44	2.5	39	2.2
E01	No	Shown calendar, what date is three weeks after December 2?	61	1.7	60	2.3	59	2.3
E03	No	Which of the following numbers would be rounded to 600 when rounded to the nearest hundred?	49	1.8	55	2.5	43	2.7
F08	No	Which units would be best to measure the weight (mass) of an egg?	34	1.6	36	2.4	30	2.2
G02	No	Which of the following could be the weight (mass) of an adult?	51	1.7	53	2.2	48	2.5
H06	No	Shown 6 x 4 rectangle, which of the following expressions gives the perimeter of the rectangle?	42	2.0	44	2.8	41	2.0
J06	Yes	Which of the following weight (mass) measures is the largest?	52	3.4	55	4.1	51	4.4
J08	Yes	Word problem: best estimate of 57 + 62 + 59.	40	2.8	44	4.2	37	3.4
K05	Yes	About how many centimeters is this picture of a pencil?	66	3.3	71	4.2	63	3.8
K07	Yes	A 20 cm wire is formed into a rectangle with width 4cm. What is the length?	19	1.9	20	3.0	20	2.3
L06	Yes	Given 1 clothespin = 9.2 g, which is the best estimate of the weight (mass) of 1000?	42	2.8	41	3.5	43	5.0
L08	Yes	Given number of paces in which each of several children cross the room, who had the longest pace?	12	1.8	16	2.1	10	2.7
M07	Yes	Which of the following would most likely be measured in milliliters?	31	2.4	32	3.7	31	3.4
S05	Yes	Given picture of a paper clip, about how many lengths of the clip is the length of this line?	38	2.0	39	2.7	38	2.4
T03	Yes	Mr. Brown talks a 1 hour and 30 minute walk and returns at 7:00. At what time did he start?	30	2.1	32	2.5	27	3.1
U01	Yes	Given a triangle and large irregular figure, how many triangles will cover the figure?	38	2.1	37	2.9	37	3.2
V05	Yes	How many millimeters are in a meter?	22	2.0	24	2.3	22	2.7

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Canada SCALE=Patterns, Relations and Functions

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
G04	No	Given symbol for number of magazines read in a week, select expression for number read in 6 weeks.	40	1.8	41	3.0	39	2.1
H08	No	Given number pattern, what are the next three numbers?	73	1.5	72	2.2	74	2.3
I07	Yes	Given a 130 page book, and 78 pages read, which expression gives the number of pages remaining?	44	2.8	50	3.8	39	4.0
J05	Yes	Determine common operation between four pairs of numbers.	18	2.0	21	2.8	16	2.3
K03	Yes	Which pair of numbers follows the rule 'multiply by 5'?	35	2.6	38	3.9	32	3.7
K06	Yes	Extend pattern of figures to determine number of tiles in the sixth figure.	49	3.0	50	3.2	50	4.1
L04	Yes	Shown pattern of shapes, which of the following is arranged in the same pattern?	68	2.7	66	3.9	71	3.9
L09	Yes	Given statements about the relative ages of three children, which statement must also be true?	59	2.5	57	4.0	63	3.9
M09	Yes	4 x _ <17: Which number could go in the blank to make the sentence true?	54	2.4	55	3.7	50	3.8
U04	Yes	Explain operation used to find next number in a pattern.	38	2.4	43	2.8	33	2.4

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Canada SCALE=Whole Numbers

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
A03	No	Find number of pencils given pencils/box and number of boxes.	41	1.1	42	1.4	42	1.5
A04	No	Find number of small squares given groupings of hundreds, tens, and ones.	82	0.8	86	0.9	77	1.4
B08	No	Which addition expression has the same value as 342?	72	1.6	74	1.6	71	2.0
C04	No	Which expression shows how long it will take to wash 8 windows at 4 minutes/window?	63	1.7	67	2.0	59	2.2
E02	No	Which digit is in the hundreds place in 2345?	65	1.4	68	2.1	61	1.9
F07	No	What number equals 3 ones + 5 tens + 4 hundreds + 60 thousands?	54	2.1	60	2.0	51	2.6
G03	No	Which of the following is a name for 9740?	79	1.1	81	1.4	78	1.5
H07	No	Determine the relative magnitude of three-digit numbers when digits are rearranged.	57	1.8	59	2.6	56	2.3
H09	No	Which number is equal to eight tens plus nine tens?	53	1.5	57	2.6	50	2.0
I03	Yes	Which of the numbers below, when subtracted from 900, yields an answer greater than 300?	38	2.7	40	4.1	33	3.7
I04	Yes	What is 3 times 23?	72	2.3	72	3.2	71	3.2
I09	Yes	Subtract: 6000-2369.	38	2.9	39	3.0	39	4.1
J04	Yes	25 x 18 is more than 24 x 18. How much more?	29	2.4	39	3.7	20	2.7
J09	Yes	Given chart with consecutive numbers in rows, extend pattern to find the number in square.	71	2.3	71	2.8	74	3.1
K02	Yes	Add: 6971 + 5291	68	2.3	66	4.1	68	2.9
L07	Yes	In which of the following pairs of numbers is the 2nd number 100 more than the 1st?	24	2.0	27	3.0	22	3.1
M03	Yes	Recognize symmetric property of multiplication: 7 x _ is the same as what?	59	2.5	63	3.8	53	3.6
M06	Yes	John wanted to add 1463 + 319, but entered 1263 + 319. How could he fix his mistake?	52	2.4	60	4.2	42	3.4
M08	Yes	Which of the following four-digit numbers is the largest?	77	2.0	79	2.5	75	3.2
S02	Yes	Complete number sentence: 2000+?+30+9=2739.	40	2.4	46	2.8	35	3.0
T02	Yes	Arrange four digits to make the smallest possible whole number.	30	1.9	30	2.6	30	2.7
U05	Yes	Write addition fact as a multiplication fact.	58	2.1	62	2.5	56	3.5
V02	Yes	Write the number that is 1000 more than 56,821.	25	1.9	30	3.0	21	2.4
V03	Yes	What is 5 less than 203?	47	2.0	48	2.6	47	2.2
V04A	Yes	Arrange 4 digits as addition of 2 2-digit numbers. Which sum is greater? How do you know?	26	1.9	21	2.0	33	3.3
V04B	Yes	Arrange 4 digits as addition of 2 2-digit numbers. Find arrangement with sum greater than either of above.	30	1.6	28	2.0	32	2.4

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Cyprus SCALE=Data Rep., Analysis and Probability

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
B05	No	Multi-step graph problem: determine Sarah's relative height, then her height from graph.	30	1.5	30	1.9	31	2.0
C01	No	Shown graph (20 unit increments), which class collected 45 bottles?	65	1.9	70	2.4	60	2.5
D05	No	Shown bar graph, which two classes collected exactly 80 bottles?	59	1.4	56	1.9	63	2.2
F05	No	Shown temperature chart, when was the highest temperature recorded?	50	1.9	51	2.3	50	2.7
J03	Yes	Shown pie graph of how Mary spent her day, how much time did she spend on two categories combined?	39	3.1	39	4.1	38	3.8
K04	Yes	Add points from various rounds of a game to determine who won game and by how much.	11	1.4	15	2.4	7	1.8
L01	Yes	Given graph showing numbers of trees, how many trees does each symbol represent?	40	3.0	47	4.2	34	4.1
L02	Yes	Given bags containing different numbers of marbles, determine greatest chance of choosing red marble.	20	2.5	23	4.2	15	2.7
M01	Yes	Given several hexagons with various parts shaded, find greatest chance of stone landing on shaded area.	55	3.2	55	4.1	55	4.4
M02	Yes	Multi-step word problem: add 6 one-digit numbers and subtract from 60.	35	2.4	37	3.4	33	3.4
S01	Yes	Given table of frequencies, complete bar graph for same information.	10	1.1	11	1.5	9	1.6
T01A	Yes	Read simple information from bar graph.	49	2.0	51	2.6	47	2.4
T01B	Yes	Read information from bar graph and add to find a total.	4	0.8	4	1.0	4	0.8

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Cyprus SCALE=Fractions and Proportionality

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
A01	No	In which figure are one-half of the dots black?	37	1.5	39	1.8	36	1.8
A02	No	Determine total number from ratio and one number.	45	1.3	43	1.8	46	1.5
B09	No	What is the sum of 2.5 and 3.8?	34	1.6	34	2.1	33	2.5
C03	No	Which figure shows 2/3 of the square shaded?	54	1.9	51	2.7	58	2.4
D08	No	Subtract: 4.03 - 1.15.	63	1.9	61	2.5	66	2.5
D09	No	Which of the following diagram has three out of every four squares shaded?	42	1.8	40	2.2	44	2.4
E04	No	Which of the following numbers means 7/10?	16	1.7	16	2.0	16	2.1
F06	No	Janis ate 1/2 cake, Maija ate 1/4, mother ate 1/4, how much remains?	44	1.8	45	2.3	43	2.2
G01	No	Given map and legend, how far apart are two cities?	23	1.5	26	2.1	19	1.8
I02	Yes	Which of the following word expressions is the same as .4?	13	2.5	12	3.2	14	2.8
I05	Yes	If five tomatoes make 1/2 liter of sauce, how much sauce do 15 tomatoes make?	46	2.8	54	3.8	37	3.9
I08	Yes	Shown four diagrams with various fractions shaded, which two represent the same fraction?	41	2.9	43	4.3	40	3.5
J07	Yes	Shown a square divided into 9 squares, 5 of which are shaded, what fraction of the figure is shaded?	67	2.8	67	3.9	67	3.5
K09	Yes	54 marbles are equally divided into 6 bags. How many marbles in 2 bags?	15	2.0	15	3.0	17	2.8
M05	Yes	Given partly shaded figure, which of the following numbers represents the shaded part?	16	2.1	16	2.7	17	2.7
S03	Yes	Solve word problem: 96.4-33.2	3	0.7	3	0.8	3	0.9
S04	Yes	Solve word problem: 10/30 = ?/90.	21	1.9	23	2.8	18	2.0
T04A	Yes	Does 10 girls and 20 boys mean one girl for every two boys? Explain.	5	1.0	6	1.6	5	1.1
T04B	Yes	Does 10 girls and 20 boys mean half of all students are girls? Explain.	3	0.8	4	1.2	3	0.9
U02	Yes	Write a fraction that is larger than 2/7.	52	2.1	49	3.4	56	2.4
U03A	Yes	Solve word problem using proportions: 3/10 = 9/?	40	2.5	45	3.4	35	3.1
U03B	Yes	Solve word problem using proportions: 1/3 = 9/?	11	1.3	14	1.9	7	1.5
U03C	Yes	Solve two proportions and compare results.	50	2.1	53	3.1	47	2.7
V01	Yes	Is 1/3 less than 1/4? Shade appropriate parts of a circle to demonstrate.	11	1.6	10	1.8	12	2.3

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Cyprus SCALE=Geometry

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
B06	No	Which of these solids has both a flat surface and a curved surface?	23	1.4	21	1.7	25	1.9
D07	No	Which two figures are congruent?	69	1.7	72	2.4	67	2.5
F09	No	Which of the following must be true of a triangle?	52	1.2	53	1.9	51	1.9
H05	No	Shown diagram of a figure made of blocks, which of the following could be the figure after it is turned?	34	1.5	32	2.4	37	2.2
I01	Yes	Shown map with city blocks, and given directions to school, locate school on map.	29	2.6	30	3.7	28	3.4
I06	Yes	Which of the following figures is made with straight sides only?	47	2.7	51	3.8	44	3.9
J01	Yes	Shown hexagon divided into six triangles, identify smaller shape. (recognize triangles)	84	2.2	84	3.1	83	3.1
J02	Yes	Shown several drawings with a line through each, which does not show a line of symmetry?	41	2.6	39	4.0	42	4.1
K01	Yes	Shown figure with overlapping shapes, which number is in square and circle, but not in triangle?	46	2.9	44	4.4	48	3.6
K08	Yes	Which of the following rectangles is not divided into 4 equal parts?	41	2.9	45	4.0	36	3.6
L03	Yes	Shown "game board" graph, which object is located at (2,D)?	67	2.7	67	3.8	67	3.8
L05	Yes	Shown diagram of cube with one edge labeled, how many edges does the cube have?	21	2.1	20	3.3	23	3.2
M04	Yes	Given explanation of how grid works, give the coordinates of a particular point.	16	2.0	15	2.9	18	3.1
T05	Yes	Shown picture of folded paper with shape cut out, draw picture of cut-out when unfolded.	11	1.4	10	1.6	12	1.7

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Cyprus SCALE=Measurement, Estimation, & Number Sense

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
A05	No	Which of these figures has the largest area?	74	1.1	75	1.3	74	1.6
B07	No	Word problem: best estimate of 84 x 57.	26	1.4	26	1.9	25	1.8
C02	No	Find volume of a stack of 5 cubes.	51	1.8	53	2.4	49	2.5
D06	No	How many degrees did temperature rise from minus 3 to 5?	41	1.6	42	2.1	39	2.1
E01	No	Shown calendar, what date is three weeks after December 2?	43	1.6	45	2.1	40	1.9
E03	No	Which of the following numbers would be rounded to 600 when rounded to the nearest hundred?	25	1.6	26	1.9	25	2.1
F08	No	Which units would be best to measure the weight (mass) of an egg?	57	1.7	55	2.2	59	2.3
G02	No	Which of the following could be the weight (mass) of an adult?	51	1.8	52	2.6	50	2.4
H06	No	Shown 6 x 4 rectangle, which of the following expressions gives the perimeter of the rectangle?	52	1.9	53	2.7	50	2.4
J06	Yes	Which of the following weight (mass) measures is the largest?	15	1.9	20	3.2	10	2.3
J08	Yes	Word problem: best estimate of 57 + 62 + 59.	29	2.4	30	3.5	28	3.5
K05	Yes	About how many centimeters is this picture of a pencil?	71	3.0	71	3.7	70	3.9
K07	Yes	A 20 cm wire is formed into a rectangle with width 4cm. What is the length?	25	2.5	28	3.6	23	3.3
L06	Yes	Given 1 clothespin = 9.2 g, which is the best estimate of the weight (mass) of 1000?	32	2.5	33	3.7	30	3.3
L08	Yes	Given number of paces in which each of several children cross the room, who had the longest pace?	13	1.7	12	2.3	14	2.7
M07	Yes	Which of the following would most likely be measured in milliliters?	21	2.3	21	3.6	20	3.1
S05	Yes	Given picture of a paper clip, about how many lengths of the clip is the length of this line?	24	2.2	25	2.7	23	2.5
T03	Yes	Mr. Brown talks a 1 hour and 30 minute walk and returns at 7:00. At what time did he start?	19	1.8	25	2.9	13	1.9
U01	Yes	Given a triangle and large irregular figure, how many triangles will cover the figure?	22	1.8	24	2.4	20	2.3
V05	Yes	How many millimeters are in a meter?	12	1.4	10	1.6	14	2.0

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Cyprus SCALE=Patterns, Relations and Functions

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
G04	No	Given symbol for number of magazines read in a week, select expression for number read in 6 weeks.	44	1.8	44	2.7	44	2.4
H08	No	Given number pattern, what are the next three numbers?	44	1.9	43	2.5	45	2.5
I07	Yes	Given a 130 page book, and 78 pages read, which expression gives the number of pages remaining?	47	3.1	49	3.9	45	4.3
J05	Yes	Determine common operation between four pairs of numbers.	18	2.9	16	3.6	20	3.4
K03	Yes	Which pair of numbers follows the rule 'multiply by 5'?	29	2.8	25	3.5	33	3.5
K06	Yes	Extend pattern of figures to determine number of tiles in the sixth figure.	48	2.4	50	3.2	45	3.5
L04	Yes	Shown pattern of shapes, which of the following is arranged in the same pattern?	40	3.0	40	3.5	40	3.9
L09	Yes	Given statements about the relative ages of three children, which statement must also be true?	48	2.7	51	4.1	46	3.9
M09	Yes	4 x _ <17: Which number could go in the blank to make the sentence true?	47	2.8	46	4.1	48	4.0
U04	Yes	Explain operation used to find next number in a pattern.	41	2.6	44	3.3	39	2.9

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Cyprus SCALE=Whole Numbers

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
A03	No	Find number of pencils given pencils/box and number of boxes.	55	1.3	54	1.4	56	1.6
A04	No	Find number of small squares given groupings of hundreds, tens, and ones.	68	1.2	72	1.3	64	1.7
B08	No	Which addition expression has the same value as 342?	74	1.4	75	1.9	74	1.7
C04	No	Which expression shows how long it will take to wash 8 windows at 4 minutes/window?	74	1.7	76	2.1	72	2.3
E02	No	Which digit is in the hundreds place in 2345?	51	2.2	52	2.6	49	2.8
F07	No	What number equals 3 ones + 5 tens + 4 hundreds + 60 thousands?	52	2.0	54	2.7	49	2.3
G03	No	Which of the following is a name for 9740?	78	1.3	75	2.1	81	1.5
H07	No	Determine the relative magnitude of three-digit numbers when digits are rearranged.	56	1.8	60	2.3	53	2.5
H09	No	Which number is equal to eight tens plus nine tens?	46	1.7	48	2.6	43	2.1
I03	Yes	Which of the numbers below, when subtracted from 900, yields an answer greater than 300?	48	2.8	48	3.8	47	3.8
I04	Yes	What is 3 times 23?	70	2.5	74	3.1	65	3.5
I09	Yes	Subtract: 6000-2369.	54	3.3	50	4.3	57	4.4
J04	Yes	25 x 18 is more than 24 x 18. How much more?	14	2.1	15	2.9	14	2.7
J09	Yes	Given chart with consecutive numbers in rows, extend pattern to find the number in square.	54	3.1	51	4.3	57	3.7
K02	Yes	Add: 6971 + 5291	73	2.3	72	3.7	73	3.6
L07	Yes	In which of the following pairs of numbers is the 2nd number 100 more than the 1st?	36	2.6	39	4.0	33	3.4
M03	Yes	Recognize symmetric property of multiplication: 7 x _ is the same as what?	57	3.0	60	3.5	54	4.3
M06	Yes	John wanted to add 1463 + 319, but entered 1263 + 319. How could he fix his mistake?	51	2.9	53	3.8	49	4.3
M08	Yes	Which of the following four-digit numbers is the largest?	65	3.0	65	3.9	65	3.6
S02	Yes	Complete number sentence: 2000+?+30+9=2739.	40	2.0	44	2.5	36	3.1
T02	Yes	Arrange four digits to make the smallest possible whole number.	10	1.2	11	1.7	9	1.6
U05	Yes	Write addition fact as a multiplication fact.	63	1.9	61	2.5	65	2.8
V02	Yes	Write the number that is 1000 more than 56,821.	16	1.5	18	2.1	13	2.3
V03	Yes	What is 5 less than 203?	31	1.9	33	2.7	30	2.5
V04A	Yes	Arrange 4 digits as addition of 2 2-digit numbers. Which sum is greater? How do you know?	12	1.5	11	1.8	14	2.2
V04B	Yes	Arrange 4 digits as addition of 2 2-digit numbers. Find arrangement with sum greater than either of above.	13	1.2	16	2.2	11	1.7

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Czech Republic SCALE=Data Rep., Analysis and Probability

			Third Grade					
			Overall		Boys		Girls	
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
B05	No	Multi-step graph problem: determine Sarah's relative height, then her height from graph.	57	1.4	58	1.7	57	2.3
C01	No	Shown graph (20 unit increments), which class collected 45 bottles?	73	1.4	73	1.9	74	1.9
D05	No	Shown bar graph, which two classes collected exactly 80 bottles?	76	1.3	77	1.7	74	1.9
F05	No	Shown temperature chart, when was the highest temperature recorded?	65	1.4	64	1.9	66	2.0
J03	Yes	Shown pie graph of how Mary spent her day, how much time did she spend on two categories combined?	62	2.7	62	3.4	62	3.8
K04	Yes	Add points from various rounds of a game to determine who won game and by how much.	51	2.6	49	3.8	53	3.8
L01	Yes	Given graph showing numbers of trees, how many trees does each symbol represent?	29	2.7	35	3.8	23	3.3
L02	Yes	Given bags containing different numbers of marbles, determine greatest chance of choosing red marble.	42	2.5	44	3.8	40	3.3
M01	Yes	Given several hexagons with various parts shaded, find greatest chance of stone landing on shaded area.	78	2.2	78	3.4	78	3.2
M02	Yes	Multi-step word problem: add 6 one-digit numbers and subtract from 60.	58	2.9	63	3.5	53	4.1
S01	Yes	Given table of frequencies, complete bar graph for same information.	17	1.7	17	2.4	16	2.2
T01A	Yes	Read simple information from bar graph.	65	2.0	65	2.6	64	2.9
T01B	Yes	Read information from bar graph and add to find a total.	26	1.8	25	2.5	27	2.5

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Czech Republic SCALE=Fractions and Proportionality

			Third Grade					
			Overall		Boys		Girls	
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
A01	No	In which figure are one-half of the dots black?	90	0.6	90	0.9	90	0.8
A02	No	Determine total number from ratio and one number.	67	1.2	70	1.5	64	1.5
B09	No	What is the sum of 2.5 and 3.8?	41	1.8	44	2.2	38	2.4
C03	No	Which figure shows 2/3 of the square shaded?	26	1.6	27	1.9	25	2.2
D08	No	Subtract: 4.03 - 1.15.	47	1.8	48	2.3	46	2.5
D09	No	Which of the following diagram has three out of every four squares shaded?	35	1.9	37	2.0	34	2.5
E04	No	Which of the following numbers means 7/10?	17	1.5	16	1.8	17	1.8
F06	No	Janis ate 1/2 cake, Maija ate 1/4, mother ate 1/4, how much remains?	59	1.6	54	2.2	63	2.3
G01	No	Given map and legend, how far apart are two cities?	42	1.9	48	1.9	35	2.6
I02	Yes	Which of the following word expressions is the same as .4?	26	2.7	35	4.1	19	2.9
I05	Yes	If five tomatoes make 1/2 liter of sauce, how much sauce do 15 tomatoes make?	50	2.4	57	3.1	43	3.6
I08	Yes	Shown four diagrams with various fractions shaded, which two represent the same fraction?	50	3.0	50	4.0	51	3.5
J07	Yes	Shown a square divided into 9 squares, 5 of which are shaded, what fraction of the figure is shaded?	14	2.2	14	2.5	14	2.9
K09	Yes	54 marbles are equally divided into 6 bags. How many marbles in 2 bags?	40	2.9	37	3.6	43	3.8
M05	Yes	Given partly shaded figure, which of the following numbers represents the shaded part?	45	2.5	43	3.7	47	4.0
S03	Yes	Solve word problem: 96.4-33.2	16	1.6	18	2.5	14	2.0
S04	Yes	Solve word problem: 10/30 = ?/90.	33	2.2	35	2.9	31	2.8
T04A	Yes	Does 10 girls and 20 boys mean one girl for every two boys? Explain.	9	1.2	9	1.4	8	1.6
T04B	Yes	Does 10 girls and 20 boys mean half of all students are girls? Explain.	5	1.1	5	1.2	6	1.5
U02	Yes	Write a fraction that is larger than 2/7.	31	2.2	29	2.3	33	3.1
U03A	Yes	Solve word problem using proportions: 3/10 = 9/?	54	2.6	58	2.9	50	3.4
U03B	Yes	Solve word problem using proportions: 1/3 = 9/?	40	2.3	44	2.7	36	2.9
U03C	Yes	Solve two proportions and compare results.	64	2.3	64	2.8	63	2.8
V01	Yes	Is 1/3 less than 1/4? Shade appropriate parts of a circle to demonstrate.	9	1.2	10	1.8	7	1.2

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Czech Republic SCALE=Geometry

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
B06	No	Which of these solids has both a flat surface and a curved surface?	29	1.6	30	1.8	29	2.3
D07	No	Which two figures are congruent?	89	0.9	89	1.5	88	1.4
F09	No	Which of the following must be true of a triangle?	62	1.5	63	2.2	60	1.9
H05	No	Shown diagram of a figure made of blocks, which of the following could be the figure after it is turned?	51	1.6	52	2.3	50	2.2
I01	Yes	Shown map with city blocks, and given directions to school, locate school on map.	50	2.7	55	3.8	46	3.4
I06	Yes	Which of the following figures is made with straight sides only?	79	2.3	77	3.6	81	2.8
J01	Yes	Shown hexagon divided into six triangles, identify smaller shape. (recognize triangles)	91	1.5	90	2.4	91	1.9
J02	Yes	Shown several drawings with a line through each, which does not show a line of symmetry?	62	2.4	63	3.0	60	3.7
K01	Yes	Shown figure with overlapping shapes, which number is in square and circle, but not in triangle?	78	2.4	76	3.1	80	3.1
K08	Yes	Which of the following rectangles is not divided into 4 equal parts?	63	3.1	58	4.5	68	3.6
L03	Yes	Shown "game board" graph, which object is located at (2,D)?	89	1.8	89	2.6	89	2.2
L05	Yes	Shown diagram of cube with one edge labeled, how many edges does the cube have?	44	3.0	45	3.8	43	4.3
M04	Yes	Given explanation of how grid works, give the coordinates of a particular point.	25	2.4	25	3.0	26	3.3
T05	Yes	Shown picture of folded paper with shape cut out, draw picture of cut-out when unfolded.	50	2.2	50	3.2	49	2.4

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Czech Republic SCALE=Measurement, Estimation, & Number Sense

			Overall		Boys		Girls	
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
A05	No	Which of these figures has the largest area?	92	0.6	92	1.0	92	0.8
B07	No	Word problem: best estimate of 84 x 57.	36	1.9	37	2.4	36	2.1
C02	No	Find volume of a stack of 5 cubes.	79	1.4	78	2.1	79	1.7
D06	No	How many degrees did temperature rise from minus 3 to 5?	63	1.7	68	2.4	58	2.5
E01	No	Shown calendar, what date is three weeks after December 2?	63	1.6	63	2.2	63	2.1
E03	No	Which of the following numbers would be rounded to 600 when rounded to the nearest hundred?	63	2.2	67	2.7	60	2.7
F08	No	Which units would be best to measure the weight (mass) of an egg?	55	1.6	61	2.3	50	2.2
G02	No	Which of the following could be the weight (mass) of an adult?	84	1.3	86	1.6	83	1.8
H06	No	Shown 6 x 4 rectangle, which of the following expressions gives the perimeter of the rectangle?	49	1.6	53	2.3	44	2.1
J06	Yes	Which of the following weight (mass) measures is the largest?	73	2.8	77	3.4	70	4.1
J08	Yes	Word problem: best estimate of 57 + 62 + 59.	38	2.6	39	3.4	38	3.9
K05	Yes	About how many centimeters is this picture of a pencil?	79	2.3	82	2.8	76	3.2
K07	Yes	A 20 cm wire is formed into a rectangle with width 4cm. What is the length?	15	1.8	15	2.3	16	2.6
L06	Yes	Given 1 clothespin = 9.2 g, which is the best estimate of the weight (mass) of 1000?	50	2.8	51	4.0	49	3.9
L08	Yes	Given number of paces in which each of several children cross the room, who had the longest pace?	39	2.7	44	3.8	32	3.6
M07	Yes	Which of the following would most likely be measured in milliliters?	28	2.3	28	3.2	28	3.0
S05	Yes	Given picture of a paper clip, about how many lengths of the clip is the length of this line?	33	2.5	36	3.2	29	3.0
T03	Yes	Mr. Brown talks a 1 hour and 30 minute walk and returns at 7:00. At what time did he start?	45	1.9	49	2.6	41	2.7
U01	Yes	Given a triangle and large irregular figure, how many triangles will cover the figure?	40	2.2	38	2.8	42	2.7
V05	Yes	How many millimeters are in a meter?	50	2.0	53	2.5	46	2.9

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Czech Republic SCALE=Patterns, Relations and Functions

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
G04	No	Given symbol for number of magazines read in a week, select expression for number read in 6 weeks.	47	1.8	46	2.3	47	2.5
H08	No	Given number pattern, what are the next three numbers?	56	1.6	55	1.8	58	2.3
I07	Yes	Given a 130 page book, and 78 pages read, which expression gives the number of pages remaining?	63	2.6	65	3.5	61	3.9
J05	Yes	Determine common operation between four pairs of numbers.	38	2.6	36	3.5	40	4.1
K03	Yes	Which pair of numbers follows the rule 'multiply by 5'?	40	2.8	40	3.7	40	3.8
K06	Yes	Extend pattern of figures to determine number of tiles in the sixth figure.	64	2.6	63	3.5	65	3.5
L04	Yes	Shown pattern of shapes, which of the following is arranged in the same pattern?	66	2.3	64	3.3	69	3.3
L09	Yes	Given statements about the relative ages of three children, which statement must also be true?	52	2.4	55	3.3	48	3.4
M09	Yes	4 x _ <17: Which number could go in the blank to make the sentence true?	65	2.2	67	3.3	62	3.5
U04	Yes	Explain operation used to find next number in a pattern.	42	2.5	42	2.9	41	3.1

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Czech Republic SCALE=Whole Numbers

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
A03	No	Find number of pencils given pencils/box and number of boxes.	48	1.7	47	1.7	49	2.0
A04	No	Find number of small squares given groupings of hundreds, tens, and ones.	74	1.1	77	1.4	72	1.4
B08	No	Which addition expression has the same value as 342?	91	0.7	91	1.1	91	1.1
C04	No	Which expression shows how long it will take to wash 8 windows at 4 minutes/window?	80	1.4	81	1.8	80	2.0
E02	No	Which digit is in the hundreds place in 2345?	71	1.7	71	2.2	71	2.3
F07	No	What number equals 3 ones + 5 tens + 4 hundreds + 60 thousands?	65	1.3	68	2.0	63	1.9
G03	No	Which of the following is a name for 9740?	88	1.1	88	1.3	87	1.6
H07	No	Determine the relative magnitude of three-digit numbers when digits are rearranged.	78	1.2	79	1.9	78	1.6
H09	No	Which number is equal to eight tens plus nine tens?	70	1.5	75	1.9	65	2.0
I03	Yes	Which of the numbers below, when subtracted from 900, yields an answer greater than 300?	59	2.7	56	3.8	62	3.4
I04	Yes	What is 3 times 23?	91	1.4	90	2.0	93	1.8
I09	Yes	Subtract: 6000-2369.	61	2.6	63	2.7	59	4.0
J04	Yes	25 x 18 is more than 24 x 18. How much more?	29	2.7	33	3.6	25	3.4
J09	Yes	Given chart with consecutive numbers in rows, extend pattern to find the number in square.	61	3.0	57	4.6	65	3.7
K02	Yes	Add: 6971 + 5291	75	2.8	74	4.0	76	3.5
L07	Yes	In which of the following pairs of numbers is the 2nd number 100 more than the 1st?	45	3.0	49	4.0	40	3.9
M03	Yes	Recognize symmetric property of multiplication: 7 x _ is the same as what?	35	2.9	41	3.9	30	3.3
M06	Yes	John wanted to add 1463 + 319, but entered 1263 + 319. How could he fix his mistake?	74	2.2	79	3.1	69	3.4
M08	Yes	Which of the following four-digit numbers is the largest?	87	1.6	86	2.3	88	2.7
S02	Yes	Complete number sentence: 2000+?+30+9=2739.	54	2.2	59	3.0	50	3.1
T02	Yes	Arrange four digits to make the smallest possible whole number.	22	1.8	23	2.5	21	2.2
U05	Yes	Write addition fact as a multiplication fact.	63	2.2	61	2.7	66	2.7
V02	Yes	Write the number that is 1000 more than 56,821.	41	2.1	48	2.8	34	2.9
V03	Yes	What is 5 less than 203?	61	1.8	65	2.6	56	2.5
V04A	Yes	Arrange 4 digits as addition of 2 2-digit numbers. Which sum is greater? How do you know?	12	1.6	12	2.0	12	1.9
V04B	Yes	Arrange 4 digits as addition of 2 2-digit numbers. Find arrangement with sum greater than either of above.	23	1.9	21	2.3	25	2.7

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Greece SCALE=Data Rep., Analysis and Probability

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
B05	No	Multi-step graph problem: determine Sarah's relative height, then her height from graph.	36	1.6	35	2.0	37	2.2
C01	No	Shown graph (20 unit increments), which class collected 45 bottles?	61	1.8	62	2.5	61	2.9
D05	No	Shown bar graph, which two classes collected exactly 80 bottles?	54	1.7	55	2.3	53	2.8
F05	No	Shown temperature chart, when was the highest temperature recorded?	36	2.4	38	3.6	34	2.9
J03	Yes	Shown pie graph of how Mary spent her day, how much time did she spend on two categories combined?	49	3.1	42	3.8	55	4.3
K04	Yes	Add points from various rounds of a game to determine who won game and by how much.	24	2.8	29	3.7	18	3.4
L01	Yes	Given graph showing numbers of trees, how many trees does each symbol represent?	21	4.2	18	4.1	24	6.1
L02	Yes	Given bags containing different numbers of marbles, determine greatest chance of choosing red marble.	21	2.5	20	3.0	22	4.0
M01	Yes	Given several hexagons with various parts shaded, find greatest chance of stone landing on shaded area.	73	2.8	75	4.4	70	3.8
M02	Yes	Multi-step word problem: add 6 one-digit numbers and subtract from 60.	27	2.7	30	4.1	23	3.2
S01	Yes	Given table of frequencies, complete bar graph for same information.	13	1.7	12	2.1	13	2.5
T01A	Yes	Read simple information from bar graph.	45	2.5	47	3.1	44	3.2
T01B	Yes	Read information from bar graph and add to find a total.	14	1.5	15	2.4	13	1.9

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Greece SCALE=Fractions and Proportionality

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
A01	No	In which figure are one-half of the dots black?	85	1.0	85	1.2	85	1.3
A02	No	Determine total number from ratio and one number.	51	1.4	53	1.9	49	1.8
B09	No	What is the sum of 2.5 and 3.8?	27	1.6	26	2.0	28	2.4
C03	No	Which figure shows 2/3 of the square shaded?	23	1.8	23	2.1	24	2.7
D08	No	Subtract: 4.03 - 1.15.	42	2.1	45	2.8	38	2.5
D09	No	Which of the following diagram has three out of every four squares shaded?	31	1.7	33	2.6	29	2.5
E04	No	Which of the following numbers means 7/10?	17	2.4	20	3.8	14	2.0
F06	No	Janis ate 1/2 cake, Maija ate 1/4, mother ate 1/4, how much remains?	49	2.3	52	3.8	45	2.7
G01	No	Given map and legend, how far apart are two cities?	28	1.9	30	2.7	25	2.3
I02	Yes	Which of the following word expressions is the same as .4?	11	1.8	12	2.6	9	2.2
I05	Yes	If five tomatoes make 1/2 liter of sauce, how much sauce do 15 tomatoes make?	45	2.8	47	4.3	42	4.2
I08	Yes	Shown four diagrams with various fractions shaded, which two represent the same fraction?	50	2.9	49	4.1	52	4.1
J07	Yes	Shown a square divided into 9 squares, 5 of which are shaded, what fraction of the figure is shaded?	27	2.8	27	3.8	27	4.2
K09	Yes	54 marbles are equally divided into 6 bags. How many marbles in 2 bags?	21	2.6	19	3.4	24	3.8
M05	Yes	Given partly shaded figure, which of the following numbers represents the shaded part?	36	2.9	32	4.5	40	3.6
S03	Yes	Solve word problem: 96.4-33.2	8	1.6	8	1.9	9	2.4
S04	Yes	Solve word problem: 10/30 = ?/90.	22	2.2	21	2.3	23	3.6
T04A	Yes	Does 10 girls and 20 boys mean one girl for every two boys? Explain.	7	1.6	8	2.0	6	1.7
T04B	Yes	Does 10 girls and 20 boys mean half of all students are girls? Explain.	1	0.5	1	0.8	1	0.5
U02	Yes	Write a fraction that is larger than 2/7.	33	2.8	33	3.7	33	3.7
U03A	Yes	Solve word problem using proportions: 3/10 = 9/?	38	2.6	44	3.6	32	2.9
U03B	Yes	Solve word problem using proportions: 1/3 = 9/?	18	2.4	26	3.6	11	1.9
U03C	Yes	Solve two proportions and compare results.	45	2.5	50	3.2	40	3.5
V01	Yes	Is 1/3 less than 1/4? Shade appropriate parts of a circle to demonstrate.	8	1.5	9	2.1	7	1.6

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Greece SCALE=Geometry

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
B06	No	Which of these solids has both a flat surface and a curved surface?	34	1.7	35	2.1	34	2.3
D07	No	Which two figures are congruent?	74	1.7	76	2.5	73	2.3
F09	No	Which of the following must be true of a triangle?	61	1.9	66	3.0	57	2.8
H05	No	Shown diagram of a figure made of blocks, which of the following could be the figure after it is turned?	51	2.2	49	3.1	53	2.6
I01	Yes	Shown map with city blocks, and given directions to school, locate school on map.	26	2.8	29	4.1	22	3.7
I06	Yes	Which of the following figures is made with straight sides only?	27	2.9	27	4.1	28	3.6
J01	Yes	Shown hexagon divided into six triangles, identify smaller shape. (recognize triangles)	81	2.5	75	3.9	86	2.7
J02	Yes	Shown several drawings with a line through each, which does not show a line of symmetry?	25	2.6	26	3.6	25	4.0
K01	Yes	Shown figure with overlapping shapes, which number is in square and circle, but not in triangle?	46	3.0	49	4.9	44	3.8
K08	Yes	Which of the following rectangles is not divided into 4 equal parts?	29	3.0	31	4.2	27	3.8
L03	Yes	Shown "game board" graph, which object is located at (2,D)?	70	2.9	69	4.0	71	4.2
L05	Yes	Shown diagram of cube with one edge labeled, how many edges does the cube have?	18	2.4	17	4.0	19	3.0
M04	Yes	Given explanation of how grid works, give the coordinates of a particular point.	15	1.9	16	2.9	13	2.3
T05	Yes	Shown picture of folded paper with shape cut out, draw picture of cut-out when unfolded.	18	2.1	19	2.7	18	2.5

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Greece SCALE=Measurement, Estimation, & Number Sense

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
A05	No	Which of these figures has the largest area?	61	1.7	63	1.8	59	2.1
B07	No	Word problem: best estimate of 84 x 57.	24	1.8	24	2.4	23	2.4
C02	No	Find volume of a stack of 5 cubes.	54	1.4	57	2.2	50	2.3
D06	No	How many degrees did temperature rise from minus 3 to 5?	47	1.7	50	2.4	44	2.3
E01	No	Shown calendar, what date is three weeks after December 2?	46	2.2	45	3.2	48	2.7
E03	No	Which of the following numbers would be rounded to 600 when rounded to the nearest hundred?	31	2.3	33	3.4	28	2.6
F08	No	Which units would be best to measure the weight (mass) of an egg?	51	2.2	55	3.1	48	2.7
G02	No	Which of the following could be the weight (mass) of an adult?	70	1.7	72	2.1	68	2.3
H06	No	Shown 6 x 4 rectangle, which of the following expressions gives the perimeter of the rectangle?	27	2.1	25	2.8	30	2.6
J06	Yes	Which of the following weight (mass) measures is the largest?	59	3.1	58	4.4	61	3.9
J08	Yes	Word problem: best estimate of 57 + 62 + 59.	23	2.3	26	4.1	20	3.4
K05	Yes	About how many centimeters is this picture of a pencil?	58	2.9	59	3.6	58	4.3
K07	Yes	A 20 cm wire is formed into a rectangle with width 4cm. What is the length?	16	2.2	19	2.9	13	2.9
L06	Yes	Given 1 clothespin = 9.2 g, which is the best estimate of the weight (mass) of 1000?	27	3.3	33	4.3	22	5.0
L08	Yes	Given number of paces in which each of several children cross the room, who had the longest pace?	18	3.4	19	4.3	17	5.3
M07	Yes	Which of the following would most likely be measured in milliliters?	21	2.6	19	3.4	24	3.9
S05	Yes	Given picture of a paper clip, about how many lengths of the clip is the length of this line?	18	2.2	16	2.4	21	3.0
T03	Yes	Mr. Brown talks a 1 hour and 30 minute walk and returns at 7:00. At what time did he start?	18	2.3	20	2.9	16	2.7
U01	Yes	Given a triangle and large irregular figure, how many triangles will cover the figure?	22	2.4	21	2.8	23	3.6
V05	Yes	How many millimeters are in a meter?	24	2.4	21	2.7	28	3.6

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Greece SCALE=Patterns, Relations and Functions

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
G04	No	Given symbol for number of magazines read in a week, select expression for number read in 6 weeks.	29	2.1	33	3.0	24	2.4
H08	No	Given number pattern, what are the next three numbers?	32	1.8	31	2.6	33	2.3
I07	Yes	Given a 130 page book, and 78 pages read, which expression gives the number of pages remaining?	35	2.8	34	3.7	36	4.2
J05	Yes	Determine common operation between four pairs of numbers.	14	2.0	14	3.1	14	2.8
K03	Yes	Which pair of numbers follows the rule 'multiply by 5'?	25	3.3	27	4.3	22	3.7
K06	Yes	Extend pattern of figures to determine number of tiles in the sixth figure.	44	3.3	47	4.4	41	4.0
L04	Yes	Shown pattern of shapes, which of the following is arranged in the same pattern?	29	3.3	32	4.5	27	3.9
L09	Yes	Given statements about the relative ages of three children, which statement must also be true?	54	3.8	55	4.4	53	5.2
M09	Yes	4 x _ <17: Which number could go in the blank to make the sentence true?	42	3.3	43	4.7	41	4.5
U04	Yes	Explain operation used to find next number in a pattern.	27	2.2	30	3.0	24	2.6

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Greece SCALE=Whole Numbers

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
A03	No	Find number of pencils given pencils/box and number of boxes.	48	1.7	47	2.1	48	2.1
A04	No	Find number of small squares given groupings of hundreds, tens, and ones.	56	1.9	59	2.2	52	2.1
B08	No	Which addition expression has the same value as 342?	78	1.3	78	1.8	77	1.6
C04	No	Which expression shows how long it will take to wash 8 windows at 4 minutes/window?	69	1.6	65	2.7	72	2.1
E02	No	Which digit is in the hundreds place in 2345?	46	2.2	51	3.1	42	2.6
F07	No	What number equals 3 ones + 5 tens + 4 hundreds + 60 thousands?	48	2.0	49	3.3	46	2.8
G03	No	Which of the following is a name for 9740?	74	1.7	73	2.3	75	2.0
H07	No	Determine the relative magnitude of three-digit numbers when digits are rearranged.	57	2.2	56	3.2	59	2.5
H09	No	Which number is equal to eight tens plus nine tens?	39	2.1	39	3.1	39	2.5
I03	Yes	Which of the numbers below, when subtracted from 900, yields an answer greater than 300?	37	2.8	41	3.4	34	4.2
I04	Yes	What is 3 times 23?	76	2.5	79	3.6	72	3.6
I09	Yes	Subtract: 6000-2369.	46	3.1	46	4.2	47	4.6
J04	Yes	25 x 18 is more than 24 x 18. How much more?	16	2.3	21	3.3	13	2.9
J09	Yes	Given chart with consecutive numbers in rows, extend pattern to find the number in square.	53	2.8	45	3.8	60	3.9
K02	Yes	Add: 6971 + 5291	57	3.1	61	4.2	53	4.1
L07	Yes	In which of the following pairs of numbers is the 2nd number 100 more than the 1st?	25	3.8	31	4.2	20	5.7
M03	Yes	Recognize symmetric property of multiplication: 7 x _ is the same as what?	35	2.8	36	3.9	35	3.9
M06	Yes	John wanted to add 1463 + 319, but entered 1263 + 319. How could he fix his mistake?	49	3.3	51	4.4	47	4.8
M08	Yes	Which of the following four-digit numbers is the largest?	76	2.9	74	4.2	77	3.4
S02	Yes	Complete number sentence: 2000+?+30+9=2739.	35	2.4	35	3.1	36	3.3
T02	Yes	Arrange four digits to make the smallest possible whole number.	11	1.8	13	2.4	9	1.9
U05	Yes	Write addition fact as a multiplication fact.	58	2.4	61	3.1	55	3.5
V02	Yes	Write the number that is 1000 more than 56,821.	20	2.0	24	2.9	17	2.2
V03	Yes	What is 5 less than 203?	34	2.1	37	3.1	31	3.3
V04A	Yes	Arrange 4 digits as addition of 2 2-digit numbers. Which sum is greater? How do you know?	17	2.2	16	2.0	18	3.8
V04B	Yes	Arrange 4 digits as addition of 2 2-digit numbers. Find arrangement with sum greater than either of above.	23	2.0	21	2.4	26	3.4

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Hong Kong SCALE=Data Rep., Analysis and Probability

			Third Grade					
			Overall		Boys		Girls	
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
B05	No	Multi-step graph problem: determine Sarah's relative height, then her height from graph.	67	1.2	64	1.5	70	1.5
C01	No	Shown graph (20 unit increments), which class collected 45 bottles?	91	0.9	93	0.9	90	1.4
D05	No	Shown bar graph, which two classes collected exactly 80 bottles?	91	1.0	91	1.3	91	1.3
F05	No	Shown temperature chart, when was the highest temperature recorded?	72	1.3	73	1.9	71	2.0
J03	Yes	Shown pie graph of how Mary spent her day, how much time did she spend on two categories combined?	76	2.3	78	3.6	74	2.9
K04	Yes	Add points from various rounds of a game to determine who won game and by how much.	48	2.2	49	2.4	46	3.8
L01	Yes	Given graph showing numbers of trees, how many trees does each symbol represent?	59	2.7	58	3.5	60	4.0
L02	Yes	Given bags containing different numbers of marbles, determine greatest chance of choosing red marble.	45	2.0	45	2.6	45	2.5
M01	Yes	Given several hexagons with various parts shaded, find greatest chance of stone landing on shaded area.	75	1.7	76	2.8	72	2.8
M02	Yes	Multi-step word problem: add 6 one-digit numbers and subtract from 60.	44	2.4	46	3.2	43	4.3
S01	Yes	Given table of frequencies, complete bar graph for same information.	59	2.1	60	3.3	57	2.8
T01A	Yes	Read simple information from bar graph.	65	2.0	65	2.8	66	2.3
T01B	Yes	Read information from bar graph and add to find a total.	23	2.0	23	2.3	21	2.3

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Hong Kong SCALE=Fractions and Proportionality

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
A01	No	In which figure are one-half of the dots black?	84	0.8	85	0.9	84	1.1
A02	No	Determine total number from ratio and one number.	41	0.9	40	1.1	42	1.0
B09	No	What is the sum of 2.5 and 3.8?	77	1.3	79	1.8	75	1.5
C03	No	Which figure shows 2/3 of the square shaded?	63	2.0	65	2.2	60	3.3
D08	No	Subtract: 4.03 - 1.15.	77	1.5	77	1.7	77	2.3
D09	No	Which of the following diagram has three out of every four squares shaded?	46	1.7	48	2.4	44	1.8
E04	No	Which of the following numbers means 7/10?	24	1.3	26	2.0	21	1.6
F06	No	Janis ate 1/2 cake, Maija ate 1/4, mother ate 1/4, how much remains?	46	1.8	49	2.2	43	2.1
G01	No	Given map and legend, how far apart are two cities?	37	1.6	41	2.1	34	2.2
I02	Yes	Which of the following word expressions is the same as .4?	17	2.0	21	2.9	13	2.5
I05	Yes	If five tomatoes make 1/2 liter of sauce, how much sauce do 15 tomatoes make?	61	1.8	66	2.5	54	3.4
I08	Yes	Shown four diagrams with various fractions shaded, which two represent the same fraction?	38	2.5	41	4.5	35	3.3
J07	Yes	Shown a square divided into 9 squares, 5 of which are shaded, what fraction of the figure is shaded?	93	1.4	94	1.8	92	1.8
K09	Yes	54 marbles are equally divided into 6 bags. How many marbles in 2 bags?	32	1.7	31	2.8	33	2.7
M05	Yes	Given partly shaded figure, which of the following numbers represents the shaded part?	38	3.3	38	3.6	37	4.2
S03	Yes	Solve word problem: 96.4-33.2	20	2.6	21	3.0	19	2.8
S04	Yes	Solve word problem: 10/30 = ?/90.	40	2.2	42	3.0	37	2.2
T04A	Yes	Does 10 girls and 20 boys mean one girl for every two boys? Explain.	3	0.6	3	1.0	3	0.8
T04B	Yes	Does 10 girls and 20 boys mean half of all students are girls? Explain.	4	0.7	4	1.1	3	0.9
U02	Yes	Write a fraction that is larger than 2/7.	74	1.9	73	2.4	76	2.5
U03A	Yes	Solve word problem using proportions: 3/10 = 9/?	68	2.1	70	2.8	66	3.6
U03B	Yes	Solve word problem using proportions: 1/3 = 9/?	54	2.2	57	3.3	49	2.5
U03C	Yes	Solve two proportions and compare results.	69	1.8	68	2.6	70	2.9
V01	Yes	Is 1/3 less than 1/4? Shade appropriate parts of a circle to demonstrate.	28	1.9	29	1.9	28	2.9

REL: Release Status (Yes= Item in Released Item Set)

Third International Mathematics and Science Study - 1995 Assessment
Percent Correct on the Mathematics Items - Third Grade

May 11, 1998 39

COUNTRY ID=Hong Kong SCALE=Geometry

			Third Grade					
			Overall		Boys		Girls	
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
B06	No	Which of these solids has both a flat surface and a curved surface?	51	1.3	52	1.7	51	2.1
D07	No	Which two figures are congruent?	90	0.9	90	1.2	90	1.2
F09	No	Which of the following must be true of a triangle?	68	1.6	67	2.0	69	2.1
H05	No	Shown diagram of a figure made of blocks, which of the following could be the figure after it is turned?	35	1.4	39	2.0	31	1.7
I01	Yes	Shown map with city blocks, and given directions to school, locate school on map.	55	2.7	58	3.5	51	3.6
I06	Yes	Which of the following figures is made with straight sides only?	83	2.6	82	4.4	83	3.1
J01	Yes	Shown hexagon divided into six triangles, identify smaller shape. (recognize triangles)	97	0.8	97	0.8	95	1.5
J02	Yes	Shown several drawings with a line through each, which does not show a line of symmetry?	82	1.4	82	2.3	82	2.3
K01	Yes	Shown figure with overlapping shapes, which number is in square and circle, but not in triangle?	56	2.3	56	2.9	56	3.0
K08	Yes	Which of the following rectangles is not divided into 4 equal parts?	62	2.8	65	3.3	58	4.6
L03	Yes	Shown "game board" graph, which object is located at (2,D)?	81	2.3	78	4.0	86	2.5
L05	Yes	Shown diagram of cube with one edge labeled, how many edges does the cube have?	53	3.2	51	4.2	55	3.8
M04	Yes	Given explanation of how grid works, give the coordinates of a particular point.	34	2.3	35	3.0	33	3.5
T05	Yes	Shown picture of folded paper with shape cut out, draw picture of cut-out when unfolded.	71	2.2	72	2.8	70	3.1

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Hong Kong SCALE=Measurement, Estimation, & Number Sense

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
A05	No	Which of these figures has the largest area?	87	0.9	87	1.1	86	1.0
B07	No	Word problem: best estimate of 84 x 57.	37	1.7	39	1.9	34	2.2
C02	No	Find volume of a stack of 5 cubes.	77	1.5	79	2.0	74	2.2
D06	No	How many degrees did temperature rise from minus 3 to 5?	58	1.4	62	1.9	54	2.2
E01	No	Shown calendar, what date is three weeks after December 2?	58	1.3	57	1.9	60	1.9
E03	No	Which of the following numbers would be rounded to 600 when rounded to the nearest hundred?	70	1.6	69	1.7	71	2.3
F08	No	Which units would be best to measure the weight (mass) of an egg?	64	1.8	65	2.3	62	2.2
G02	No	Which of the following could be the weight (mass) of an adult?	67	1.7	67	2.2	67	2.0
H06	No	Shown 6 x 4 rectangle, which of the following expressions gives the perimeter of the rectangle?	69	1.4	72	1.8	66	1.8
J06	Yes	Which of the following weight (mass) measures is the largest?	86	1.8	86	2.2	85	2.8
J08	Yes	Word problem: best estimate of 57 + 62 + 59.	39	2.7	44	3.6	32	3.3
K05	Yes	About how many centimeters is this picture of a pencil?	89	1.9	89	2.8	89	2.3
K07	Yes	A 20 cm wire is formed into a rectangle with width 4cm. What is the length?	20	1.8	23	2.8	17	2.4
L06	Yes	Given 1 clothespin = 9.2 g, which is the best estimate of the weight (mass) of 1000?	57	2.5	56	4.1	58	3.2
L08	Yes	Given number of paces in which each of several children cross the room, who had the longest pace?	21	2.0	22	3.2	20	2.7
M07	Yes	Which of the following would most likely be measured in milliliters?	41	2.4	41	3.5	42	4.1
S05	Yes	Given picture of a paper clip, about how many lengths of the clip is the length of this line?	32	1.6	30	2.2	34	2.2
T03	Yes	Mr. Brown talks a 1 hour and 30 minute walk and returns at 7:00. At what time did he start?	24	1.5	27	1.9	20	2.0
U01	Yes	Given a triangle and large irregular figure, how many triangles will cover the figure?	52	2.1	53	3.6	52	2.2
V05	Yes	How many millimeters are in a meter?	51	1.9	52	2.0	49	3.0

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Hong Kong SCALE=Patterns, Relations and Functions

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
G04	No	Given symbol for number of magazines read in a week, select expression for number read in 6 weeks.	44	1.8	45	2.0	44	2.7
H08	No	Given number pattern, what are the next three numbers?	70	1.4	71	2.0	68	2.0
I07	Yes	Given a 130 page book, and 78 pages read, which expression gives the number of pages remaining?	61	2.8	58	4.4	65	3.5
K03	Yes	Which pair of numbers follows the rule 'multiply by 5'?	58	2.2	59	3.5	57	3.0
K06	Yes	Extend pattern of figures to determine number of tiles in the sixth figure.	67	2.5	65	3.6	69	3.1
L04	Yes	Shown pattern of shapes, which of the following is arranged in the same pattern?	71	1.9	71	2.8	71	3.7
L09	Yes	Given statements about the relative ages of three children, which statement must also be true?	65	2.1	62	2.6	67	3.5
M09	Yes	4 x _ <17: Which number could go in the blank to make the sentence true?	64	1.8	66	2.5	62	3.8
U04	Yes	Explain operation used to find next number in a pattern.	43	2.6	45	2.8	41	3.3

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Hong Kong SCALE=Whole Numbers

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
A03	No	Find number of pencils given pencils/box and number of boxes.	72	1.2	70	1.4	73	1.4
A04	No	Find number of small squares given groupings of hundreds, tens, and ones.	88	0.8	90	0.8	86	1.1
B08	No	Which addition expression has the same value as 342?	90	0.8	91	1.0	88	1.2
C04	No	Which expression shows how long it will take to wash 8 windows at 4 minutes/window?	80	1.2	83	1.7	76	1.9
E02	No	Which digit is in the hundreds place in 2345?	74	1.3	72	1.8	77	1.6
F07	No	What number equals 3 ones + 5 tens + 4 hundreds + 60 thousands?	43	1.6	47	2.2	38	2.5
G03	No	Which of the following is a name for 9740?	94	0.6	93	1.1	95	0.8
H07	No	Determine the relative magnitude of three-digit numbers when digits are rearranged.	50	2.3	51	2.7	48	2.6
H09	No	Which number is equal to eight tens plus nine tens?	69	1.7	73	2.0	64	2.7
I03	Yes	Which of the numbers below, when subtracted from 900, yields an answer greater than 300?	54	3.0	52	4.7	56	4.2
I04	Yes	What is 3 times 23?	91	1.1	91	1.5	90	1.9
I09	Yes	Subtract: 6000-2369.	78	2.3	80	3.1	76	2.6
J04	Yes	25 x 18 is more than 24 x 18. How much more?	35	2.6	40	3.4	28	3.3
J09	Yes	Given chart with consecutive numbers in rows, extend pattern to find the number in square.	77	2.5	75	3.1	79	3.2
K02	Yes	Add: 6971 + 5291	89	1.5	84	2.2	93	1.6
L07	Yes	In which of the following pairs of numbers is the 2nd number 100 more than the 1st?	49	2.6	51	3.0	47	3.8
M03	Yes	Recognize symmetric property of multiplication: 7 x _ is the same as what?	57	2.6	58	3.8	56	3.7
M06	Yes	John wanted to add 1463 + 319, but entered 1263 + 319. How could he fix his mistake?	61	2.6	62	2.8	58	4.3
M08	Yes	Which of the following four-digit numbers is the largest?	88	1.5	90	2.0	87	2.8
S02	Yes	Complete number sentence: 2000+?+30+9=2739.	75	1.5	75	2.0	76	2.5
T02	Yes	Arrange four digits to make the smallest possible whole number.	72	2.1	73	2.8	71	2.6
U05	Yes	Write addition fact as a multiplication fact.	89	1.3	89	2.0	89	1.5
V02	Yes	Write the number that is 1000 more than 56,821.	42	1.9	46	2.1	37	3.1
V03	Yes	What is 5 less than 203?	58	2.1	60	2.3	56	3.3
V04A	Yes	Arrange 4 digits as addition of 2 2-digit numbers. Which sum is greater? How do you know?	13	1.2	13	1.6	12	1.9
V04B	Yes	Arrange 4 digits as addition of 2 2-digit numbers. Find arrangement with sum greater than either of above.	67	1.7	70	1.9	65	3.0

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Hungary SCALE=Data Rep., Analysis and Probability

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
B05	No	Multi-step graph problem: determine Sarah's relative height, then her height from graph.	59	1.6	56	2.6	63	2.3
C01	No	Shown graph (20 unit increments), which class collected 45 bottles?	67	1.9	69	2.5	67	2.3
D05	No	Shown bar graph, which two classes collected exactly 80 bottles?	63	1.6	60	2.5	66	1.9
F05	No	Shown temperature chart, when was the highest temperature recorded?	68	1.7	64	2.3	71	2.1
J03	Yes	Shown pie graph of how Mary spent her day, how much time did she spend on two categories combined?	59	2.8	55	3.8	67	4.2
K04	Yes	Add points from various rounds of a game to determine who won game and by how much.	30	2.3	27	3.6	32	3.3
L01	Yes	Given graph showing numbers of trees, how many trees does each symbol represent?	24	2.3	24	3.1	23	3.7
L02	Yes	Given bags containing different numbers of marbles, determine greatest chance of choosing red marble.	46	3.0	50	3.6	44	3.8
M01	Yes	Given several hexagons with various parts shaded, find greatest chance of stone landing on shaded area.	69	2.5	71	3.1	68	3.8
M02	Yes	Multi-step word problem: add 6 one-digit numbers and subtract from 60.	56	2.5	55	4.0	59	4.5
S01	Yes	Given table of frequencies, complete bar graph for same information.	14	1.5	12	1.9	16	2.4
T01A	Yes	Read simple information from bar graph.	49	2.4	57	2.8	43	3.1
T01B	Yes	Read information from bar graph and add to find a total.	10	1.3	11	1.9	10	1.5

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Hungary SCALE=Fractions and Proportionality

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
A01	No	In which figure are one-half of the dots black?	89	0.9	89	1.0	90	1.2
A02	No	Determine total number from ratio and one number.	51	1.3	51	1.6	52	1.9
B09	No	What is the sum of 2.5 and 3.8?	38	1.6	39	2.2	38	2.2
C03	No	Which figure shows 2/3 of the square shaded?	32	2.0	31	2.4	34	2.5
D08	No	Subtract: 4.03 - 1.15.	53	1.9	51	2.7	55	2.5
D09	No	Which of the following diagram has three out of every four squares shaded?	32	1.8	32	2.4	32	2.1
E04	No	Which of the following numbers means 7/10?	15	1.2	14	1.6	16	1.6
F06	No	Janis ate 1/2 cake, Maija ate 1/4, mother ate 1/4, how much remains?	55	2.2	55	2.8	56	2.9
G01	No	Given map and legend, how far apart are two cities?	29	1.6	31	2.3	25	1.9
I02	Yes	Which of the following word expressions is the same as .4?	16	2.4	19	3.4	14	2.7
I05	Yes	If five tomatoes make 1/2 liter of sauce, how much sauce do 15 tomatoes make?	52	2.7	55	3.9	49	3.7
I08	Yes	Shown four diagrams with various fractions shaded, which two represent the same fraction?	58	2.7	59	4.0	57	3.7
J07	Yes	Shown a square divided into 9 squares, 5 of which are shaded, what fraction of the figure is shaded?	26	3.1	26	3.7	27	4.2
K09	Yes	54 marbles are equally divided into 6 bags. How many marbles in 2 bags?	24	2.5	21	3.0	26	3.5
M05	Yes	Given partly shaded figure, which of the following numbers represents the shaded part?	40	3.3	43	4.1	36	4.2
S03	Yes	Solve word problem: 96.4-33.2	5	0.9	5	1.5	5	1.2
S04	Yes	Solve word problem: 10/30 = ?/90.	26	1.7	24	2.2	28	2.6
U02	Yes	Write a fraction that is larger than 2/7.	38	2.4	38	3.0	38	3.4
U03A	Yes	Solve word problem using proportions: 3/10 = 9/?	41	2.3	44	3.2	38	3.0
U03B	Yes	Solve word problem using proportions: 1/3 = 9/?	30	1.8	33	3.0	27	2.2
U03C	Yes	Solve two proportions and compare results.	56	2.2	58	2.9	55	3.3
V01	Yes	Is 1/3 less than 1/4? Shade appropriate parts of a circle to demonstrate.	12	1.5	11	1.6	14	2.4

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Hungary SCALE=Geometry

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
B06	No	Which of these solids has both a flat surface and a curved surface?	41	1.6	39	2.3	43	2.2
D07	No	Which two figures are congruent?	71	1.8	69	3.1	73	1.9
F09	No	Which of the following must be true of a triangle?	45	1.7	44	2.2	47	2.5
H05	No	Shown diagram of a figure made of blocks, which of the following could be the figure after it is turned?	40	1.7	41	2.3	39	2.4
I01	Yes	Shown map with city blocks, and given directions to school, locate school on map.	48	3.3	50	4.3	46	4.3
I06	Yes	Which of the following figures is made with straight sides only?	81	2.0	83	3.2	80	3.2
J01	Yes	Shown hexagon divided into six triangles, identify smaller shape. (recognize triangles)	76	2.4	77	3.2	75	3.2
J02	Yes	Shown several drawings with a line through each, which does not show a line of symmetry?	50	2.8	46	4.0	53	4.5
K01	Yes	Shown figure with overlapping shapes, which number is in square and circle, but not in triangle?	65	2.5	63	4.0	65	3.2
K08	Yes	Which of the following rectangles is not divided into 4 equal parts?	55	2.1	53	3.3	56	3.7
L03	Yes	Shown "game board" graph, which object is located at (2,D)?	78	2.4	79	3.4	76	3.9
L05	Yes	Shown diagram of cube with one edge labeled, how many edges does the cube have?	32	2.7	33	3.6	27	4.1
M04	Yes	Given explanation of how grid works, give the coordinates of a particular point.	18	2.0	15	2.6	21	3.2
T05	Yes	Shown picture of folded paper with shape cut out, draw picture of cut-out when unfolded.	36	2.0	37	2.3	37	3.1

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Hungary SCALE=Measurement, Estimation, & Number Sense

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
A05	No	Which of these figures has the largest area?	76	1.2	77	1.4	75	1.5
B07	No	Word problem: best estimate of 84 x 57.	36	1.7	37	2.2	35	1.9
C02	No	Find volume of a stack of 5 cubes.	52	1.8	52	2.7	54	1.9
D06	No	How many degrees did temperature rise from minus 3 to 5?	37	2.1	39	2.5	37	2.5
E01	No	Shown calendar, what date is three weeks after December 2?	53	1.6	54	2.4	52	2.4
E03	No	Which of the following numbers would be rounded to 600 when rounded to the nearest hundred?	69	1.6	73	1.9	66	2.4
F08	No	Which units would be best to measure the weight (mass) of an egg?	53	2.1	56	2.6	52	2.6
G02	No	Which of the following could be the weight (mass) of an adult?	75	1.6	79	2.1	72	2.1
H06	No	Shown 6 x 4 rectangle, which of the following expressions gives the perimeter of the rectangle?	35	2.1	38	2.6	32	2.5
J06	Yes	Which of the following weight (mass) measures is the largest?	76	2.4	83	2.8	71	3.4
J08	Yes	Word problem: best estimate of 57 + 62 + 59.	43	2.8	45	4.1	42	4.4
K05	Yes	About how many centimeters is this picture of a pencil?	61	2.5	64	4.0	60	3.9
K07	Yes	A 20 cm wire is formed into a rectangle with width 4cm. What is the length?	13	1.8	13	2.6	14	2.7
L06	Yes	Given 1 clothespin = 9.2 g, which is the best estimate of the weight (mass) of 1000?	48	3.1	47	3.4	49	4.8
L08	Yes	Given number of paces in which each of several children cross the room, who had the longest pace?	14	1.6	15	2.6	13	2.6
M07	Yes	Which of the following would most likely be measured in milliliters?	41	2.9	39	4.1	45	4.3
S05	Yes	Given picture of a paper clip, about how many lengths of the clip is the length of this line?	37	2.1	36	2.8	39	2.8
T03	Yes	Mr. Brown talks a 1 hour and 30 minute walk and returns at 7:00. At what time did he start?	28	1.9	32	2.9	27	2.9
U01	Yes	Given a triangle and large irregular figure, how many triangles will cover the figure?	46	2.0	47	3.4	46	2.9
V05	Yes	How many millimeters are in a meter?	42	1.9	41	2.7	41	2.8

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Hungary SCALE=Patterns, Relations and Functions

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
G04	No	Given symbol for number of magazines read in a week, select expression for number read in 6 weeks.	41	1.8	41	2.6	41	2.5
H08	No	Given number pattern, what are the next three numbers?	61	1.4	63	2.1	60	2.3
I07	Yes	Given a 130 page book, and 78 pages read, which expression gives the number of pages remaining?	71	2.4	73	3.7	71	3.4
J05	Yes	Determine common operation between four pairs of numbers.	40	3.0	40	3.8	40	4.7
K03	Yes	Which pair of numbers follows the rule 'multiply by 5'?	52	2.6	56	3.5	51	3.5
K06	Yes	Extend pattern of figures to determine number of tiles in the sixth figure.	51	3.4	51	5.1	51	3.7
L04	Yes	Shown pattern of shapes, which of the following is arranged in the same pattern?	63	2.8	60	3.9	67	4.2
L09	Yes	Given statements about the relative ages of three children, which statement must also be true?	62	2.9	61	4.5	65	3.6
M09	Yes	4 x _ <17: Which number could go in the blank to make the sentence true?	63	2.8	59	3.2	69	4.0
U04	Yes	Explain operation used to find next number in a pattern.	62	2.3	59	3.1	63	3.3

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Hungary SCALE=Whole Numbers

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
A03	No	Find number of pencils given pencils/box and number of boxes.	59	1.5	60	1.9	59	1.8
A04	No	Find number of small squares given groupings of hundreds, tens, and ones.	61	1.6	64	2.2	59	1.8
B08	No	Which addition expression has the same value as 342?	87	1.0	87	1.3	89	1.4
C04	No	Which expression shows how long it will take to wash 8 windows at 4 minutes/window?	71	1.6	71	2.1	71	2.1
E02	No	Which digit is in the hundreds place in 2345?	70	1.7	70	2.2	72	2.1
F07	No	What number equals 3 ones + 5 tens + 4 hundreds + 60 thousands?	59	1.9	60	2.3	58	2.5
G03	No	Which of the following is a name for 9740?	88	1.1	87	1.7	88	1.5
H07	No	Determine the relative magnitude of three-digit numbers when digits are rearranged.	78	1.5	79	2.1	78	1.9
H09	No	Which number is equal to eight tens plus nine tens?	70	1.4	71	1.9	70	2.1
I03	Yes	Which of the numbers below, when subtracted from 900, yields an answer greater than 300?	67	2.8	67	4.1	67	3.9
I04	Yes	What is 3 times 23?	90	1.6	91	2.1	89	3.1
I09	Yes	Subtract: 6000-2369.	74	2.5	72	3.9	75	3.5
J04	Yes	25 x 18 is more than 24 x 18. How much more?	29	2.2	30	2.9	28	3.8
J09	Yes	Given chart with consecutive numbers in rows, extend pattern to find the number in square.	65	2.5	61	3.7	72	3.5
K02	Yes	Add: 6971 + 5291	77	2.2	77	3.3	76	2.9
L07	Yes	In which of the following pairs of numbers is the 2nd number 100 more than the 1st?	45	3.0	44	3.8	45	4.5
M03	Yes	Recognize symmetric property of multiplication: 7 x _ is the same as what?	57	3.5	56	4.5	57	4.2
M06	Yes	John wanted to add 1463 + 319, but entered 1263 + 319. How could he fix his mistake?	73	2.6	73	3.8	74	3.7
M08	Yes	Which of the following four-digit numbers is the largest?	85	2.2	86	2.6	83	3.0
S02	Yes	Complete number sentence: 2000+?+30+9=2739.	50	2.3	51	2.9	50	3.1
T02	Yes	Arrange four digits to make the smallest possible whole number.	30	2.3	30	2.6	31	3.7
U05	Yes	Write addition fact as a multiplication fact.	61	2.3	59	2.9	64	3.1
V02	Yes	Write the number that is 1000 more than 56,821.	30	2.2	34	2.4	26	3.3
V03	Yes	What is 5 less than 203?	61	1.8	60	2.6	62	3.0
V04A	Yes	Arrange 4 digits as addition of 2 2-digit numbers. Which sum is greater? How do you know?	38	2.2	36	2.8	42	3.3
V04B	Yes	Arrange 4 digits as addition of 2 2-digit numbers. Find arrangement with sum greater than either of above.	31	2.2	30	2.5	33	2.9

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Iceland SCALE=Data Rep., Analysis and Probability

			Third Grade					
			Overall		Boys		Girls	
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
B05	No	Multi-step graph problem: determine Sarah's relative height, then her height from graph.	54	1.8	55	2.5	52	2.4
C01	No	Shown graph (20 unit increments), which class collected 45 bottles?	69	1.9	73	2.7	65	2.5
D05	No	Shown bar graph, which two classes collected exactly 80 bottles?	70	1.5	67	2.5	72	3.0
F05	No	Shown temperature chart, when was the highest temperature recorded?	49	2.4	51	3.8	46	3.7
J03	Yes	Shown pie graph of how Mary spent her day, how much time did she spend on two categories combined?	51	3.2	51	4.5	50	4.5
K04	Yes	Add points from various rounds of a game to determine who won game and by how much.	22	3.6	26	5.8	18	3.3
L01	Yes	Given graph showing numbers of trees, how many trees does each symbol represent?	44	4.1	55	6.0	34	5.7
L02	Yes	Given bags containing different numbers of marbles, determine greatest chance of choosing red marble.	36	4.2	39	6.2	33	5.4
M01	Yes	Given several hexagons with various parts shaded, find greatest chance of stone landing on shaded area.	62	3.3	64	3.9	59	4.4
M02	Yes	Multi-step word problem: add 6 one-digit numbers and subtract from 60.	21	2.7	24	4.9	18	4.2
S01	Yes	Given table of frequencies, complete bar graph for same information.	15	2.1	17	3.2	12	2.5
T01A	Yes	Read simple information from bar graph.	46	2.5	48	3.4	44	3.7
T01B	Yes	Read information from bar graph and add to find a total.	4	1.1	5	1.7	3	1.2

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Iceland SCALE=Fractions and Proportionality

			Third Grade					
			Overall		Boys		Girls	
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
A01	No	In which figure are one-half of the dots black?	86	1.2	85	1.6	88	1.4
A02	No	Determine total number from ratio and one number.	25	1.4	26	1.7	23	1.9
B09	No	What is the sum of 2.5 and 3.8?	30	2.0	31	2.6	29	2.6
C03	No	Which figure shows 2/3 of the square shaded?	22	1.6	23	2.0	20	2.2
D08	No	Subtract: 4.03 - 1.15.	11	1.6	11	2.3	12	1.8
D09	No	Which of the following diagram has three out of every four squares shaded?	39	2.6	39	3.4	38	3.4
E04	No	Which of the following numbers means 7/10?	16	1.4	17	2.0	14	2.0
F06	No	Janis ate 1/2 cake, Maija ate 1/4, mother ate 1/4, how much remains?	55	2.7	55	3.7	55	3.2
G01	No	Given map and legend, how far apart are two cities?	26	1.8	28	2.9	24	2.2
I02	Yes	Which of the following word expressions is the same as .4?	13	2.8	19	4.9	6	2.7
I05	Yes	If five tomatoes make 1/2 liter of sauce, how much sauce do 15 tomatoes make?	34	3.7	45	5.7	25	4.5
I08	Yes	Shown four diagrams with various fractions shaded, which two represent the same fraction?	48	4.0	45	5.5	51	4.5
J07	Yes	Shown a square divided into 9 squares, 5 of which are shaded, what fraction of the figure is shaded?	18	3.2	17	3.8	19	4.0
K09	Yes	54 marbles are equally divided into 6 bags. How many marbles in 2 bags?	12	2.1	15	3.4	8	2.7
M05	Yes	Given partly shaded figure, which of the following numbers represents the shaded part?	21	3.6	23	4.5	20	4.1
S03	Yes	Solve word problem: 96.4-33.2	1	0.6	2	1.1	0	0.3
S04	Yes	Solve word problem: 10/30 = ?/90.	14	1.7	19	2.9	10	2.0
T04A	Yes	Does 10 girls and 20 boys mean one girl for every two boys? Explain.	2	0.7	1	0.7	2	1.1
T04B	Yes	Does 10 girls and 20 boys mean half of all students are girls? Explain.	0	0.3	1	0.5	.	.
U02	Yes	Write a fraction that is larger than 2/7.	20	2.3	22	3.6	18	2.9
U03A	Yes	Solve word problem using proportions: 3/10 = 9/?	34	2.5	42	3.3	25	3.4
U03B	Yes	Solve word problem using proportions: 1/3 = 9/?	15	1.8	20	2.7	10	2.1
U03C	Yes	Solve two proportions and compare results.	50	3.4	55	4.5	46	3.6
V01	Yes	Is 1/3 less than 1/4? Shade appropriate parts of a circle to demonstrate.	13	2.0	11	2.3	14	3.0

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Iceland SCALE=Geometry

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
B06	No	Which of these solids has both a flat surface and a curved surface?	33	1.8	33	2.5	34	2.3
D07	No	Which two figures are congruent?	81	1.9	80	2.6	83	2.7
F09	No	Which of the following must be true of a triangle?	60	2.7	58	3.3	62	3.7
H05	No	Shown diagram of a figure made of blocks, which of the following could be the figure after it is turned?	46	2.1	48	3.0	43	3.3
I01	Yes	Shown map with city blocks, and given directions to school, locate school on map.	41	3.7	52	5.8	30	3.7
I06	Yes	Which of the following figures is made with straight sides only?	56	3.9	65	4.8	48	5.9
J01	Yes	Shown hexagon divided into six triangles, identify smaller shape. (recognize triangles)	80	3.0	74	4.3	85	3.7
J02	Yes	Shown several drawings with a line through each, which does not show a line of symmetry?	41	3.8	37	5.6	45	5.1
K01	Yes	Shown figure with overlapping shapes, which number is in square and circle, but not in triangle?	47	3.7	41	5.2	53	5.6
K08	Yes	Which of the following rectangles is not divided into 4 equal parts?	52	3.7	52	5.2	52	4.9
L03	Yes	Shown "game board" graph, which object is located at (2,D)?	78	3.0	82	4.4	74	4.7
L05	Yes	Shown diagram of cube with one edge labeled, how many edges does the cube have?	19	3.0	19	4.3	19	3.9
M04	Yes	Given explanation of how grid works, give the coordinates of a particular point.	32	4.2	26	4.1	37	6.0
T05	Yes	Shown picture of folded paper with shape cut out, draw picture of cut-out when unfolded.	39	2.1	36	3.1	42	3.5

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Iceland SCALE=Measurement, Estimation, & Number Sense

			Third Grade					
			Overall		Boys		Girls	
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
A05	No	Which of these figures has the largest area?	47	1.8	48	2.2	46	2.3
B07	No	Word problem: best estimate of 84 x 57.	23	1.3	24	2.2	22	2.0
C02	No	Find volume of a stack of 5 cubes.	28	2.1	28	3.1	28	2.8
D06	No	How many degrees did temperature rise from minus 3 to 5?	30	2.5	31	2.8	29	3.2
E01	No	Shown calendar, what date is three weeks after December 2?	50	2.5	52	2.7	47	3.8
E03	No	Which of the following numbers would be rounded to 600 when rounded to the nearest hundred?	25	2.1	29	3.0	21	2.4
F08	No	Which units would be best to measure the weight (mass) of an egg?	36	2.1	39	2.5	34	2.9
G02	No	Which of the following could be the weight (mass) of an adult?	70	2.4	70	3.4	69	3.0
H06	No	Shown 6 x 4 rectangle, which of the following expressions gives the perimeter of the rectangle?	16	2.0	13	2.5	19	2.6
J06	Yes	Which of the following weight (mass) measures is the largest?	55	2.9	61	4.4	50	4.2
J08	Yes	Word problem: best estimate of 57 + 62 + 59.	19	2.6	21	3.9	16	3.9
K05	Yes	About how many centimeters is this picture of a pencil?	59	4.3	60	6.0	58	5.0
K07	Yes	A 20 cm wire is formed into a rectangle with width 4cm. What is the length?	21	2.7	20	4.4	21	3.6
L06	Yes	Given 1 clothespin = 9.2 g, which is the best estimate of the weight (mass) of 1000?	32	3.5	36	5.1	29	4.1
L08	Yes	Given number of paces in which each of several children cross the room, who had the longest pace?	23	3.5	30	5.9	17	3.3
M07	Yes	Which of the following would most likely be measured in milliliters?	29	3.4	25	4.0	34	5.6
S05	Yes	Given picture of a paper clip, about how many lengths of the clip is the length of this line?	27	2.2	29	3.2	25	3.0
T03	Yes	Mr. Brown talks a 1 hour and 30 minute walk and returns at 7:00. At what time did he start?	20	2.9	21	5.0	19	3.3
U01	Yes	Given a triangle and large irregular figure, how many triangles will cover the figure?	31	2.5	30	3.6	32	3.3
V05	Yes	How many millimeters are in a meter?	15	2.0	18	3.4	11	2.2

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Iceland SCALE=Patterns, Relations and Functions

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
G04	No	Given symbol for number of magazines read in a week, select expression for number read in 6 weeks.	23	2.3	28	3.3	19	2.7
H08	No	Given number pattern, what are the next three numbers?	41	2.1	38	2.6	45	3.7
I07	Yes	Given a 130 page book, and 78 pages read, which expression gives the number of pages remaining?	28	3.3	34	5.7	22	4.3
J05	Yes	Determine common operation between four pairs of numbers.	13	2.6	14	3.9	13	3.2
K03	Yes	Which pair of numbers follows the rule 'multiply by 5'?	28	3.8	26	4.5	29	5.3
K06	Yes	Extend pattern of figures to determine number of tiles in the sixth figure.	36	3.8	39	4.9	33	5.9
L04	Yes	Shown pattern of shapes, which of the following is arranged in the same pattern?	51	3.0	54	4.4	49	4.6
L09	Yes	Given statements about the relative ages of three children, which statement must also be true?	47	3.9	55	6.2	40	4.2
M09	Yes	4 x _ <17: Which number could go in the blank to make the sentence true?	41	3.4	40	4.9	43	5.1
U04	Yes	Explain operation used to find next number in a pattern.	15	1.9	18	2.5	12	2.5

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Iceland SCALE=Whole Numbers

			Third Grade					
			Overall		Boys		Girls	
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
A03	No	Find number of pencils given pencils/box and number of boxes.	22	1.0	25	1.9	19	1.2
A04	No	Find number of small squares given groupings of hundreds, tens, and ones.	65	1.8	69	2.1	60	2.1
B08	No	Which addition expression has the same value as 342?	69	1.5	73	2.1	65	2.3
C04	No	Which expression shows how long it will take to wash 8 windows at 4 minutes/window?	40	1.7	41	3.6	38	3.0
E02	No	Which digit is in the hundreds place in 2345?	38	2.3	46	3.6	30	3.0
F07	No	What number equals 3 ones + 5 tens + 4 hundreds + 60 thousands?	44	2.2	48	2.8	40	3.3
G03	No	Which of the following is a name for 9740?	66	2.0	69	2.9	64	2.5
H07	No	Determine the relative magnitude of three-digit numbers when digits are rearranged.	58	2.4	56	3.4	59	3.8
H09	No	Which number is equal to eight tens plus nine tens?	45	2.2	50	3.0	39	2.6
I03	Yes	Which of the numbers below, when subtracted from 900, yields an answer greater than 300?	25	3.6	27	5.3	23	4.3
I04	Yes	What is 3 times 23?	67	3.5	70	4.0	64	5.1
I09	Yes	Subtract: 6000-2369.	15	2.3	18	4.0	13	3.0
J04	Yes	25 x 18 is more than 24 x 18. How much more?	21	3.2	24	4.6	18	3.8
J09	Yes	Given chart with consecutive numbers in rows, extend pattern to find the number in square.	43	3.6	44	4.5	42	5.5
K02	Yes	Add: 6971 + 5291	28	3.5	23	5.1	34	6.1
L07	Yes	In which of the following pairs of numbers is the 2nd number 100 more than the 1st?	13	2.4	17	4.1	10	2.9
M03	Yes	Recognize symmetric property of multiplication: 7 x _ is the same as what?	47	3.4	43	4.7	50	5.1
M06	Yes	John wanted to add 1463 + 319, but entered 1263 + 319. How could he fix his mistake?	41	4.3	42	5.6	40	4.8
M08	Yes	Which of the following four-digit numbers is the largest?	60	3.7	58	5.9	63	4.9
S02	Yes	Complete number sentence: 2000+?+30+9=2739.	17	2.2	20	4.2	15	2.5
T02	Yes	Arrange four digits to make the smallest possible whole number.	13	1.6	15	2.2	12	2.6
U05	Yes	Write addition fact as a multiplication fact.	38	2.6	43	4.4	33	3.3
V02	Yes	Write the number that is 1000 more than 56,821.	13	2.1	19	3.6	8	2.3
V03	Yes	What is 5 less than 203?	23	1.9	29	3.5	18	2.5
V04A	Yes	Arrange 4 digits as addition of 2 2-digit numbers. Which sum is greater? How do you know?	12	2.1	9	2.1	15	2.9
V04B	Yes	Arrange 4 digits as addition of 2 2-digit numbers. Find arrangement with sum greater than either of above.	23	2.7	21	2.6	25	3.8

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Iran, Islamic Rep. SCALE=Data Rep., Analysis and Probability

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
B05	No	Multi-step graph problem: determine Sarah's relative height, then her height from graph.	26	1.9	24	1.8	27	3.2
C01	No	Shown graph (20 unit increments), which class collected 45 bottles?	30	2.2	35	3.8	26	2.2
D05	No	Shown bar graph, which two classes collected exactly 80 bottles?	30	1.8	30	2.1	30	2.8
F05	No	Shown temperature chart, when was the highest temperature recorded?	26	1.6	27	2.4	25	2.1
J03	Yes	Shown pie graph of how Mary spent her day, how much time did she spend on two categories combined?	30	2.8	35	4.6	26	3.5
L01	Yes	Given graph showing numbers of trees, how many trees does each symbol represent?	9	1.7	6	2.2	10	2.7
L02	Yes	Given bags containing different numbers of marbles, determine greatest chance of choosing red marble.	16	2.2	16	3.2	16	3.0
M01	Yes	Given several hexagons with various parts shaded, find greatest chance of stone landing on shaded area.	50	3.6	49	4.3	51	5.2
M02	Yes	Multi-step word problem: add 6 one-digit numbers and subtract from 60.	12	2.1	11	2.5	12	3.5
S01	Yes	Given table of frequencies, complete bar graph for same information.	0	0.2	0	0.5	0	0.2
T01A	Yes	Read simple information from bar graph.	7	1.3	9	2.2	4	1.2
T01B	Yes	Read information from bar graph and add to find a total.	1	0.4	2	0.8	0	0.3

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Iran, Islamic Rep. SCALE=Fractions and Proportionality

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
A01	No	In which figure are one-half of the dots black?	54	1.4	59	1.9	50	2.0
A02	No	Determine total number from ratio and one number.	24	1.4	25	1.7	24	2.3
B09	No	What is the sum of 2.5 and 3.8?	20	1.1	20	1.7	20	1.3
C03	No	Which figure shows 2/3 of the square shaded?	31	2.5	29	2.5	33	3.9
D08	No	Subtract: 4.03 - 1.15.	27	1.9	25	2.3	29	2.8
D09	No	Which of the following diagram has three out of every four squares shaded?	22	1.7	25	2.0	19	2.5
E04	No	Which of the following numbers means 7/10?	16	1.6	18	2.0	13	2.5
F06	No	Janis ate 1/2 cake, Maija ate 1/4, mother ate 1/4, how much remains?	41	3.3	36	2.8	44	5.5
G01	No	Given map and legend, how far apart are two cities?	16	1.6	17	2.5	15	2.1
I02	Yes	Which of the following word expressions is the same as .4?	24	2.7	23	3.8	24	3.7
I05	Yes	If five tomatoes make 1/2 liter of sauce, how much sauce do 15 tomatoes make?	35	3.3	39	4.3	31	4.9
I08	Yes	Shown four diagrams with various fractions shaded, which two represent the same fraction?	25	2.8	25	3.6	25	4.2
J07	Yes	Shown a square divided into 9 squares, 5 of which are shaded, what fraction of the figure is shaded?	37	2.7	41	3.9	33	3.5
K09	Yes	54 marbles are equally divided into 6 bags. How many marbles in 2 bags?	12	2.1	16	3.7	8	2.0
M05	Yes	Given partly shaded figure, which of the following numbers represents the shaded part?	24	2.6	24	3.1	23	4.1
S03	Yes	Solve word problem: 96.4-33.2	1	0.4	1	0.3	1	0.7
S04	Yes	Solve word problem: 10/30 = ?/90.	10	1.3	12	1.7	8	2.1
T04A	Yes	Does 10 girls and 20 boys mean one girl for every two boys? Explain.	3	0.7	4	1.0	3	0.9
T04B	Yes	Does 10 girls and 20 boys mean half of all students are girls? Explain.	0	0.3	1	0.6	0	0.1
U02	Yes	Write a fraction that is larger than 2/7.	27	2.5	25	2.4	29	4.2
U03A	Yes	Solve word problem using proportions: 3/10 = 9/?	11	1.4	14	2.0	8	1.7
U03B	Yes	Solve word problem using proportions: 1/3 = 9/?	4	0.9	6	1.5	1	0.7
U03C	Yes	Solve two proportions and compare results.	23	2.3	26	3.4	21	3.2
V01	Yes	Is 1/3 less than 1/4? Shade appropriate parts of a circle to demonstrate.	2	1.0	1	0.4	3	1.8

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Iran, Islamic Rep. SCALE=Geometry

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
B06	No	Which of these solids has both a flat surface and a curved surface?	22	1.9	24	2.7	20	2.5
D07	No	Which two figures are congruent?	42	1.8	43	2.4	41	2.4
F09	No	Which of the following must be true of a triangle?	51	2.5	49	2.6	54	3.7
H05	No	Shown diagram of a figure made of blocks, which of the following could be the figure after it is turned?	34	1.8	34	2.8	33	2.3
I01	Yes	Shown map with city blocks, and given directions to school, locate school on map.	18	2.7	18	3.4	18	4.0
I06	Yes	Which of the following figures is made with straight sides only?	30	3.2	31	4.1	29	4.6
J01	Yes	Shown hexagon divided into six triangles, identify smaller shape. (recognize triangles)	63	3.2	65	4.1	61	4.6
J02	Yes	Shown several drawings with a line through each, which does not show a line of symmetry?	55	3.0	54	4.1	55	4.0
K01	Yes	Shown figure with overlapping shapes, which number is in square and circle, but not in triangle?	39	3.3	36	4.1	41	4.4
K08	Yes	Which of the following rectangles is not divided into 4 equal parts?	33	2.7	33	2.8	34	4.1
L03	Yes	Shown "game board" graph, which object is located at (2,D)?	51	2.5	56	3.9	47	3.0
L05	Yes	Shown diagram of cube with one edge labeled, how many edges does the cube have?	11	1.6	14	3.0	8	1.8
M04	Yes	Given explanation of how grid works, give the coordinates of a particular point.	5	1.2	5	1.8	5	1.6
T05	Yes	Shown picture of folded paper with shape cut out, draw picture of cut-out when unfolded.	10	1.3	8	1.5	11	2.0

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Iran, Islamic Rep. SCALE=Measurement, Estimation, & Number Sense

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
A05	No	Which of these figures has the largest area?	75	1.1	74	1.2	76	1.7
B07	No	Word problem: best estimate of 84 x 57.	23	1.4	27	1.9	21	1.8
C02	No	Find volume of a stack of 5 cubes.	39	1.9	43	2.7	36	2.1
D06	No	How many degrees did temperature rise from minus 3 to 5?	35	1.3	35	1.9	36	1.8
E01	No	Shown calendar, what date is three weeks after December 2?	27	2.0	29	2.5	26	3.3
E03	No	Which of the following numbers would be rounded to 600 when rounded to the nearest hundred?	12	1.1	15	1.7	9	1.3
F08	No	Which units would be best to measure the weight (mass) of an egg?	40	2.1	44	2.7	36	3.1
G02	No	Which of the following could be the weight (mass) of an adult?	37	1.7	41	2.4	35	2.2
H06	No	Shown 6 x 4 rectangle, which of the following expressions gives the perimeter of the rectangle?	33	2.0	37	3.5	29	2.4
J06	Yes	Which of the following weight (mass) measures is the largest?	47	3.1	56	3.7	41	4.6
J08	Yes	Word problem: best estimate of 57 + 62 + 59.	14	2.0	14	3.3	14	2.7
K05	Yes	About how many centimeters is this picture of a pencil?	51	2.7	51	3.8	50	4.0
K07	Yes	A 20 cm wire is formed into a rectangle with width 4cm. What is the length?	13	2.0	16	2.9	11	2.7
L06	Yes	Given 1 clothespin = 9.2 g, which is the best estimate of the weight (mass) of 1000?	29	2.5	29	4.0	29	2.6
L08	Yes	Given number of paces in which each of several children cross the room, who had the longest pace?	10	1.6	12	2.8	9	2.4
M07	Yes	Which of the following would most likely be measured in milliliters?	22	3.0	26	5.0	18	3.2
S05	Yes	Given picture of a paper clip, about how many lengths of the clip is the length of this line?	9	1.2	9	1.7	10	2.0
T03	Yes	Mr. Brown talks a 1 hour and 30 minute walk and returns at 7:00. At what time did he start?	5	1.1	5	1.3	6	1.9
U01	Yes	Given a triangle and large irregular figure, how many triangles will cover the figure?	21	2.6	20	2.5	21	4.4
V05	Yes	How many millimeters are in a meter?	26	2.4	30	3.2	23	3.4

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Iran, Islamic Rep. SCALE=Patterns, Relations and Functions

			Third Grade					
			Overall		Boys		Girls	
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
G04	No	Given symbol for number of magazines read in a week, select expression for number read in 6 weeks.	28	1.9	29	3.0	27	2.3
H08	No	Given number pattern, what are the next three numbers?	21	2.1	22	3.1	21	3.2
I07	Yes	Given a 130 page book, and 78 pages read, which expression gives the number of pages remaining?	33	3.7	33	4.1	32	6.2
J05	Yes	Determine common operation between four pairs of numbers.	18	2.6	15	3.0	21	4.1
K03	Yes	Which pair of numbers follows the rule 'multiply by 5'?	28	3.6	31	4.3	26	6.0
K06	Yes	Extend pattern of figures to determine number of tiles in the sixth figure.	36	3.1	39	4.9	33	3.8
L04	Yes	Shown pattern of shapes, which of the following is arranged in the same pattern?	41	4.0	41	4.3	41	6.7
L09	Yes	Given statements about the relative ages of three children, which statement must also be true?	41	2.7	48	4.3	35	3.0
M09	Yes	4 x _ <17: Which number could go in the blank to make the sentence true?	38	3.1	43	4.1	34	4.4
U04	Yes	Explain operation used to find next number in a pattern.	14	1.5	17	2.2	12	2.2

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Iran, Islamic Rep. SCALE=Whole Numbers

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
A03	No	Find number of pencils given pencils/box and number of boxes.	44	1.8	46	2.6	42	2.6
A04	No	Find number of small squares given groupings of hundreds, tens, and ones.	56	1.8	62	2.6	51	2.3
B08	No	Which addition expression has the same value as 342?	44	1.7	48	2.4	41	2.4
C04	No	Which expression shows how long it will take to wash 8 windows at 4 minutes/window?	51	2.5	54	3.1	48	3.8
E02	No	Which digit is in the hundreds place in 2345?	57	1.9	57	3.2	57	2.7
F07	No	What number equals 3 ones + 5 tens + 4 hundreds + 60 thousands?	48	2.0	48	2.6	47	3.0
G03	No	Which of the following is a name for 9740?	67	1.9	67	2.0	67	3.0
H07	No	Determine the relative magnitude of three-digit numbers when digits are rearranged.	40	2.2	39	2.6	40	3.4
H09	No	Which number is equal to eight tens plus nine tens?	36	1.9	42	3.0	31	2.0
I03	Yes	Which of the numbers below, when subtracted from 900, yields an answer greater than 300?	34	3.1	34	4.0	34	4.9
I04	Yes	What is 3 times 23?	41	3.0	43	4.2	38	4.2
I09	Yes	Subtract: 6000-2369.	52	3.6	48	4.6	55	5.6
J04	Yes	25 x 18 is more than 24 x 18. How much more?	16	2.3	18	3.1	14	3.1
J09	Yes	Given chart with consecutive numbers in rows, extend pattern to find the number in square.	32	2.8	33	3.8	31	4.2
K02	Yes	Add: 6971 + 5291	71	2.9	65	3.4	77	4.1
L07	Yes	In which of the following pairs of numbers is the 2nd number 100 more than the 1st?	19	2.6	23	3.7	15	3.8
M03	Yes	Recognize symmetric property of multiplication: 7 x _ is the same as what?	39	3.1	38	4.1	40	4.6
M06	Yes	John wanted to add 1463 + 319, but entered 1263 + 319. How could he fix his mistake?	31	3.4	32	3.4	31	6.1
M08	Yes	Which of the following four-digit numbers is the largest?	48	3.6	55	4.9	42	5.2
S02	Yes	Complete number sentence: 2000+?+30+9=2739.	21	1.9	21	2.6	21	2.7
T02	Yes	Arrange four digits to make the smallest possible whole number.	25	2.7	24	3.3	26	4.0
U05	Yes	Write addition fact as a multiplication fact.	62	2.0	62	3.2	62	3.2
V02	Yes	Write the number that is 1000 more than 56,821.	7	1.5	7	1.8	8	2.5
V03	Yes	What is 5 less than 203?	21	2.4	27	3.9	15	2.8
V04A	Yes	Arrange 4 digits as addition of 2 2-digit numbers. Which sum is greater? How do you know?	7	1.8	6	1.6	8	3.0
V04B	Yes	Arrange 4 digits as addition of 2 2-digit numbers. Find arrangement with sum greater than either of above.	7	1.1	9	1.5	6	1.7

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Ireland SCALE=Data Rep., Analysis and Probability

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
B05	No	Multi-step graph problem: determine Sarah's relative height, then her height from graph.	60	1.6	53	2.1	67	2.1
C01	No	Shown graph (20 unit increments), which class collected 45 bottles?	82	1.6	84	2.0	81	2.2
D05	No	Shown bar graph, which two classes collected exactly 80 bottles?	73	1.6	68	2.1	78	2.0
F05	No	Shown temperature chart, when was the highest temperature recorded?	62	1.6	59	2.0	65	2.5
J03	Yes	Shown pie graph of how Mary spent her day, how much time did she spend on two categories combined?	71	3.0	69	3.8	73	3.9
K04	Yes	Add points from various rounds of a game to determine who won game and by how much.	41	3.0	42	4.2	39	3.8
L01	Yes	Given graph showing numbers of trees, how many trees does each symbol represent?	32	3.1	32	4.2	31	4.6
L02	Yes	Given bags containing different numbers of marbles, determine greatest chance of choosing red marble.	46	2.6	46	3.1	46	4.4
M01	Yes	Given several hexagons with various parts shaded, find greatest chance of stone landing on shaded area.	66	2.8	68	4.0	64	4.4
M02	Yes	Multi-step word problem: add 6 one-digit numbers and subtract from 60.	41	2.7	36	3.7	47	4.2
S01	Yes	Given table of frequencies, complete bar graph for same information.	19	2.1	21	3.3	17	2.4
T01A	Yes	Read simple information from bar graph.	62	2.5	66	3.1	57	3.3
T01B	Yes	Read information from bar graph and add to find a total.	15	1.8	14	1.8	16	3.2

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Ireland SCALE=Fractions and Proportionality

			Third Grade					
			Overall		Boys		Girls	
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
A01	No	In which figure are one-half of the dots black?	83	1.1	83	1.4	83	1.4
A02	No	Determine total number from ratio and one number.	53	1.2	52	1.5	55	1.8
B09	No	What is the sum of 2.5 and 3.8?	52	1.9	50	2.4	54	2.6
C03	No	Which figure shows 2/3 of the square shaded?	52	2.0	49	2.8	56	3.0
D08	No	Subtract: 4.03 - 1.15.	54	1.9	47	2.5	61	2.4
D09	No	Which of the following diagram has three out of every four squares shaded?	48	1.7	47	2.4	49	2.0
E04	No	Which of the following numbers means 7/10?	35	2.7	35	3.3	35	4.0
F06	No	Janis ate 1/2 cake, Maija ate 1/4, mother ate 1/4, how much remains?	72	1.8	71	2.4	74	2.5
G01	No	Given map and legend, how far apart are two cities?	30	1.8	35	2.5	25	1.8
I02	Yes	Which of the following word expressions is the same as .4?	27	3.2	26	4.2	27	4.8
I05	Yes	If five tomatoes make 1/2 liter of sauce, how much sauce do 15 tomatoes make?	41	2.9	43	4.3	39	3.7
I08	Yes	Shown four diagrams with various fractions shaded, which two represent the same fraction?	43	2.8	43	3.7	44	4.1
J07	Yes	Shown a square divided into 9 squares, 5 of which are shaded, what fraction of the figure is shaded?	53	3.2	46	5.0	62	3.0
K09	Yes	54 marbles are equally divided into 6 bags. How many marbles in 2 bags?	26	2.4	29	3.4	23	3.2
M05	Yes	Given partly shaded figure, which of the following numbers represents the shaded part?	34	2.9	34	3.8	34	4.5
S03	Yes	Solve word problem: 96.4-33.2	12	1.5	12	1.9	11	2.3
S04	Yes	Solve word problem: 10/30 = ?/90.	46	2.3	45	3.3	46	3.1
T04A	Yes	Does 10 girls and 20 boys mean one girl for every two boys? Explain.	12	1.4	12	1.9	12	2.0
T04B	Yes	Does 10 girls and 20 boys mean half of all students are girls? Explain.	9	1.5	7	1.4	11	2.6
U02	Yes	Write a fraction that is larger than 2/7.	55	1.9	56	2.9	55	2.8
U03A	Yes	Solve word problem using proportions: 3/10 = 9/?	44	2.3	49	2.7	39	3.5
U03B	Yes	Solve word problem using proportions: 1/3 = 9/?	27	2.0	29	2.3	24	3.0
U03C	Yes	Solve two proportions and compare results.	69	1.8	69	2.3	69	2.5
V01	Yes	Is 1/3 less than 1/4? Shade appropriate parts of a circle to demonstrate.	15	1.5	13	2.3	18	1.9

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Ireland SCALE=Geometry

			Third Grade					
			Overall		Boys		Girls	
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
B06	No	Which of these solids has both a flat surface and a curved surface?	47	1.8	44	2.3	50	2.3
D07	No	Which two figures are congruent?	80	1.4	78	2.1	81	1.6
F09	No	Which of the following must be true of a triangle?	67	1.3	65	2.1	69	1.8
H05	No	Shown diagram of a figure made of blocks, which of the following could be the figure after it is turned?	40	1.9	38	2.2	42	3.2
I01	Yes	Shown map with city blocks, and given directions to school, locate school on map.	43	3.0	48	4.4	38	4.6
I06	Yes	Which of the following figures is made with straight sides only?	56	3.3	54	4.4	58	4.8
J01	Yes	Shown hexagon divided into six triangles, identify smaller shape. (recognize triangles)	84	2.4	82	3.2	86	3.3
J02	Yes	Shown several drawings with a line through each, which does not show a line of symmetry?	54	2.9	50	4.0	58	3.5
K01	Yes	Shown figure with overlapping shapes, which number is in square and circle, but not in triangle?	54	2.7	47	3.7	62	3.8
K08	Yes	Which of the following rectangles is not divided into 4 equal parts?	56	2.6	53	4.1	60	3.5
L03	Yes	Shown "game board" graph, which object is located at (2,D)?	80	2.4	78	3.6	82	3.0
L05	Yes	Shown diagram of cube with one edge labeled, how many edges does the cube have?	35	3.3	35	4.5	34	4.3
M04	Yes	Given explanation of how grid works, give the coordinates of a particular point.	29	2.4	27	3.7	32	3.3
T05	Yes	Shown picture of folded paper with shape cut out, draw picture of cut-out when unfolded.	42	1.9	40	2.4	43	3.0

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Ireland SCALE=Measurement, Estimation, & Number Sense

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
A05	No	Which of these figures has the largest area?	73	1.0	74	1.5	73	1.3
B07	No	Word problem: best estimate of 84 x 57.	30	1.4	32	1.9	27	2.1
C02	No	Find volume of a stack of 5 cubes.	54	1.9	54	2.7	55	2.5
D06	No	How many degrees did temperature rise from minus 3 to 5?	44	1.4	42	2.2	45	2.1
E01	No	Shown calendar, what date is three weeks after December 2?	70	1.6	68	2.1	73	2.2
E03	No	Which of the following numbers would be rounded to 600 when rounded to the nearest hundred?	53	2.1	57	2.8	48	2.9
F08	No	Which units would be best to measure the weight (mass) of an egg?	47	2.1	47	2.6	46	2.8
G02	No	Which of the following could be the weight (mass) of an adult?	48	1.5	48	2.1	49	2.2
H06	No	Shown 6 x 4 rectangle, which of the following expressions gives the perimeter of the rectangle?	27	1.4	23	1.7	31	2.3
J06	Yes	Which of the following weight (mass) measures is the largest?	44	2.8	47	4.0	40	3.8
J08	Yes	Word problem: best estimate of 57 + 62 + 59.	36	2.7	41	4.1	31	3.9
K05	Yes	About how many centimeters is this picture of a pencil?	64	2.7	58	3.6	69	4.2
K07	Yes	A 20 cm wire is formed into a rectangle with width 4cm. What is the length?	25	2.3	25	3.4	25	3.3
L06	Yes	Given 1 clothespin = 9.2 g, which is the best estimate of the weight (mass) of 1000?	40	3.2	41	4.6	38	4.5
L08	Yes	Given number of paces in which each of several children cross the room, who had the longest pace?	25	2.7	22	3.3	28	4.1
M07	Yes	Which of the following would most likely be measured in milliliters?	28	2.1	28	3.1	28	3.2
S05	Yes	Given picture of a paper clip, about how many lengths of the clip is the length of this line?	41	2.3	39	3.4	43	3.2
T03	Yes	Mr. Brown talks a 1 hour and 30 minute walk and returns at 7:00. At what time did he start?	40	2.4	41	3.3	40	2.8
U01	Yes	Given a triangle and large irregular figure, how many triangles will cover the figure?	19	1.7	17	2.6	22	2.6
V05	Yes	How many millimeters are in a meter?	20	1.8	22	2.5	18	2.5

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Ireland SCALE=Patterns, Relations and Functions

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
G04	No	Given symbol for number of magazines read in a week, select expression for number read in 6 weeks.	44	1.7	44	2.6	46	2.2
H08	No	Given number pattern, what are the next three numbers?	60	1.7	58	2.2	63	2.5
I07	Yes	Given a 130 page book, and 78 pages read, which expression gives the number of pages remaining?	41	2.8	40	4.2	42	3.9
J05	Yes	Determine common operation between four pairs of numbers.	26	2.8	25	3.7	27	4.0
K03	Yes	Which pair of numbers follows the rule 'multiply by 5'?	34	2.6	35	3.6	34	3.5
K06	Yes	Extend pattern of figures to determine number of tiles in the sixth figure.	50	2.8	52	3.5	47	4.0
L04	Yes	Shown pattern of shapes, which of the following is arranged in the same pattern?	63	2.4	57	3.4	69	3.3
L09	Yes	Given statements about the relative ages of three children, which statement must also be true?	61	2.4	60	2.8	61	3.9
M09	Yes	4 x _ <17: Which number could go in the blank to make the sentence true?	46	3.0	43	3.8	48	4.4
U04	Yes	Explain operation used to find next number in a pattern.	54	2.8	57	3.6	50	3.5

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Ireland SCALE=Whole Numbers

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
A03	No	Find number of pencils given pencils/box and number of boxes.	44	1.0	41	1.2	46	1.6
A04	No	Find number of small squares given groupings of hundreds, tens, and ones.	75	1.0	77	1.2	74	1.4
B08	No	Which addition expression has the same value as 342?	71	1.6	71	2.0	70	2.2
C04	No	Which expression shows how long it will take to wash 8 windows at 4 minutes/window?	72	1.6	70	2.0	75	2.0
E02	No	Which digit is in the hundreds place in 2345?	62	1.7	61	2.5	63	2.2
F07	No	What number equals 3 ones + 5 tens + 4 hundreds + 60 thousands?	46	1.5	48	2.1	44	2.4
G03	No	Which of the following is a name for 9740?	86	1.3	85	1.6	87	1.9
H07	No	Determine the relative magnitude of three-digit numbers when digits are rearranged.	56	2.0	54	2.4	58	2.8
H09	No	Which number is equal to eight tens plus nine tens?	69	1.6	69	2.0	69	2.6
I03	Yes	Which of the numbers below, when subtracted from 900, yields an answer greater than 300?	44	2.7	42	3.7	46	4.1
I04	Yes	What is 3 times 23?	70	2.8	70	3.8	70	4.2
I09	Yes	Subtract: 6000-2369.	49	3.3	45	4.6	55	4.2
J04	Yes	25 x 18 is more than 24 x 18. How much more?	29	2.9	33	4.1	24	3.7
J09	Yes	Given chart with consecutive numbers in rows, extend pattern to find the number in square.	78	2.4	76	3.5	80	2.7
K02	Yes	Add: 6971 + 5291	71	2.7	62	4.5	81	2.7
L07	Yes	In which of the following pairs of numbers is the 2nd number 100 more than the 1st?	27	2.3	28	3.4	25	3.5
M03	Yes	Recognize symmetric property of multiplication: 7 x _ is the same as what?	55	2.8	53	3.9	57	4.2
M06	Yes	John wanted to add 1463 + 319, but entered 1263 + 319. How could he fix his mistake?	55	2.6	55	3.7	56	3.5
M08	Yes	Which of the following four-digit numbers is the largest?	81	2.1	81	3.3	82	2.8
S02	Yes	Complete number sentence: 2000+?+30+9=2739.	40	2.1	39	2.7	41	3.0
T02	Yes	Arrange four digits to make the smallest possible whole number.	24	1.9	23	2.3	25	3.0
U05	Yes	Write addition fact as a multiplication fact.	74	2.2	71	2.7	78	2.5
V02	Yes	Write the number that is 1000 more than 56,821.	27	1.8	31	2.8	23	2.0
V03	Yes	What is 5 less than 203?	56	2.5	59	2.8	53	3.9
V04A	Yes	Arrange 4 digits as addition of 2 2-digit numbers. Which sum is greater? How do you know?	10	1.3	9	2.0	12	1.7
V04B	Yes	Arrange 4 digits as addition of 2 2-digit numbers. Find arrangement with sum greater than either of above.	35	2.2	32	3.2	38	2.7

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Japan SCALE=Data Rep., Analysis and Probability

			Third Grade					
			Overall		Boys		Girls	
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
B05	No	Multi-step graph problem: determine Sarah's relative height, then her height from graph.	60	1.1	59	1.6	62	1.5
C01	No	Shown graph (20 unit increments), which class collected 45 bottles?	95	0.5	93	0.9	96	0.7
D05	No	Shown bar graph, which two classes collected exactly 80 bottles?	79	1.2	78	1.5	80	1.6
F05	No	Shown temperature chart, when was the highest temperature recorded?	81	1.1	82	1.5	80	1.5
K04	Yes	Add points from various rounds of a game to determine who won game and by how much.	50	2.3	49	3.1	51	3.3
L01	Yes	Given graph showing numbers of trees, how many trees does each symbol represent?	85	1.6	85	2.3	86	2.1
L02	Yes	Given bags containing different numbers of marbles, determine greatest chance of choosing red marble.	64	1.9	67	2.7	60	2.7
M01	Yes	Given several hexagons with various parts shaded, find greatest chance of stone landing on shaded area.	89	1.2	92	1.5	86	1.9
M02	Yes	Multi-step word problem: add 6 one-digit numbers and subtract from 60.	56	2.1	57	2.8	55	2.7
S01	Yes	Given table of frequencies, complete bar graph for same information.	55	1.5	49	2.0	63	2.2
T01A	Yes	Read simple information from bar graph.	88	1.1	85	1.8	90	1.3
T01B	Yes	Read information from bar graph and add to find a total.	23	1.7	23	2.2	22	2.1

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Japan SCALE=Fractions and Proportionality

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                                                                                           Third Grade

                                                                               Overall      Boys       Girls

     ITEM    REL  LABEL                                                         %    (se)   %    (se)   %    (se)
     -------------------------------------------------------------------------------------------------------------
     A01     No   In which figure are one-half of the dots black?              84   0.6    84   0.8    85   0.7
     A02     No   Determine total number from ratio and one number.            47   0.9    48   1.2    46   1.2
     B09     No   What is the sum of 2.5 and 3.8?                              91   0.6    90   0.9    91   0.9
     C03     No   Which figure shows 2/3 of the square shaded?                 64   1.3    58   1.9    69   1.8
     D08     No   Subtract:  4.03 - 1.15.                                      57   1.8    54   2.4    60   1.9
     D09     No   Which of the following diagram has three out of every four squares shaded?   62   1.5    60   1.9    64   2.0
     E04     No   Which of the following numbers means 7/10?                   63   1.9    65   2.2    62   2.2
     F06     No   Janis ate 1/2 cake, Maija ate 1/4, mother ate 1/4, how much remains?   36   1.4    34   1.7    38   2.2
     G01     No   Given map and legend, how far apart are two cities?          46   1.2    49   1.9    42   1.7
     I02     Yes  Which of the following word expressions is the same as .4?   54   2.8    53   3.2    55   3.9
     I05     Yes  If five tomatoes make 1/2 liter of sauce, how much sauce do 15 tomatoes make?   37   2.5    36   3.2    39   3.1
     I08     Yes  Shown four diagrams with various fractions shaded, which two represent the same fraction?   42   2.2    42   3.2    43   3.2
     J07     Yes  Shown a square divided into 9 squares, 5 of which are shaded, what fraction of the figure is shaded?   78   2.2    73   2.9    83   2.3
     K09     Yes  54 marbles are equally divided into 6 bags.  How many marbles in 2 bags?   34   2.0    34   2.9    35   2.8
     M05     Yes  Given partly shaded figure, which of the following numbers represents the shaded part?   67   2.3    67   3.4    67   3.2
     S03     Yes  Solve word problem: 96.4-33.2                                26   1.4    26   2.1    26   1.8
     S04     Yes  Solve word problem: 10/30 = ?/90.                            50   1.8    52   2.4    47   2.3
     T04A    Yes  Does 10 girls and 20 boys mean one girl for every two boys?  Explain.   12   0.9    11   1.4    13   1.3
     T04B    Yes  Does 10 girls and 20 boys mean half of all students are girls?  Explain.   10   1.0    10   1.4    10   1.3
     U02     Yes  Write a fraction that is larger than 2/7.                    81   1.5    80   2.1    81   2.0
     U03A    Yes  Solve word problem using proportions:  3/10 = 9/?            57   1.6    64   2.3    50   2.1
     U03B    Yes  Solve word problem using proportions: 1/3 = 9/?             45   1.8    50   2.4    41   2.1
     U03C    Yes  Solve two proportions and compare results.                   78   1.3    78   1.9    78   2.0
     V01     Yes  Is 1/3 less than 1/4?  Shade appropriate parts of a circle to demonstrate.   24   1.3    23   1.8    25   2.0
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REL: Release Status (Yes= Item in Released Item Set)

Third International Mathematics and Science Study - 1995 Assessment
Percent Correct on the Mathematics Items - Third Grade

May 11, 1998 69

COUNTRY ID=Japan SCALE=Geometry

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
B06	No	Which of these solids has both a flat surface and a curved surface?	41	1.1	42	1.6	39	1.5
D07	No	Which two figures are congruent?	86	1.1	85	1.6	87	1.3
F09	No	Which of the following must be true of a triangle?	59	1.3	57	1.9	60	1.6
H05	No	Shown diagram of a figure made of blocks, which of the following could be the figure after it is turned?	39	1.3	44	1.6	34	1.8
I01	Yes	Shown map with city blocks, and given directions to school, locate school on map.	62	2.1	61	2.8	64	3.1
I06	Yes	Which of the following figures is made with straight sides only?	85	1.9	86	2.5	83	2.5
J01	Yes	Shown hexagon divided into six triangles, identify smaller shape. (recognize triangles)	77	2.0	76	2.6	77	2.5
J02	Yes	Shown several drawings with a line through each, which does not show a line of symmetry?	43	2.5	40	3.1	45	3.3
K01	Yes	Shown figure with overlapping shapes, which number is in square and circle, but not in triangle?	50	2.2	48	3.2	52	3.4
K08	Yes	Which of the following rectangles is not divided into 4 equal parts?	72	2.1	70	3.1	74	2.9
L05	Yes	Shown diagram of cube with one edge labeled, how many edges does the cube have?	53	2.3	54	3.1	53	3.3
M04	Yes	Given explanation of how grid works, give the coordinates of a particular point.	41	2.3	38	3.1	44	3.1
T05	Yes	Shown picture of folded paper with shape cut out, draw picture of cut-out when unfolded.	75	1.7	76	2.0	73	2.2

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Japan SCALE=Measurement, Estimation, & Number Sense

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
A05	No	Which of these figures has the largest area?	87	0.6	87	0.8	87	0.9
B07	No	Word problem: best estimate of 84 x 57.	28	1.1	31	1.5	26	1.6
C02	No	Find volume of a stack of 5 cubes.	63	1.4	64	1.8	61	1.9
D06	No	How many degrees did temperature rise from minus 3 to 5?	52	1.4	56	1.8	49	1.9
E01	No	Shown calendar, what date is three weeks after December 2?	76	1.2	75	1.6	76	1.5
E03	No	Which of the following numbers would be rounded to 600 when rounded to the nearest hundred?	48	1.5	49	2.0	48	2.0
F08	No	Which units would be best to measure the weight (mass) of an egg?	84	1.0	83	1.6	86	1.4
G02	No	Which of the following could be the weight (mass) of an adult?	86	0.9	85	1.4	87	1.3
H06	No	Shown 6 x 4 rectangle, which of the following expressions gives the perimeter of the rectangle?	41	1.2	45	1.8	37	1.6
J06	Yes	Which of the following weight (mass) measures is the largest?	90	1.3	90	2.0	89	1.9
J08	Yes	Word problem: best estimate of 57 + 62 + 59.	40	2.0	44	3.0	36	3.2
K05	Yes	About how many centimeters is this picture of a pencil?	84	1.6	84	2.3	84	2.7
K07	Yes	A 20 cm wire is formed into a rectangle with width 4cm. What is the length?	33	2.2	35	3.0	32	2.8
L08	Yes	Given number of paces in which each of several children cross the room, who had the longest pace?	32	2.1	35	3.3	28	2.7
M07	Yes	Which of the following would most likely be measured in milliliters?	62	2.0	62	2.6	62	3.0
S05	Yes	Given picture of a paper clip, about how many lengths of the clip is the length of this line?	59	1.7	59	2.4	59	2.2
T03	Yes	Mr. Brown talks a 1 hour and 30 minute walk and returns at 7:00. At what time did he start?	40	1.7	44	2.3	35	2.4
U01	Yes	Given a triangle and large irregular figure, how many triangles will cover the figure?	63	1.5	61	2.2	65	2.1
V05	Yes	How many millimeters are in a meter?	56	1.6	58	2.3	53	2.4

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Japan SCALE=Patterns, Relations and Functions

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
G04	No	Given symbol for number of magazines read in a week, select expression for number read in 6 weeks.	61	1.4	59	1.9	63	1.7
H08	No	Given number pattern, what are the next three numbers?	72	1.1	68	1.5	76	1.3
I07	Yes	Given a 130 page book, and 78 pages read, which expression gives the number of pages remaining?	77	1.9	76	2.3	78	3.1
J05	Yes	Determine common operation between four pairs of numbers.	36	2.0	39	3.0	33	3.0
K03	Yes	Which pair of numbers follows the rule 'multiply by 5'?	53	2.2	54	3.4	52	3.0
K06	Yes	Extend pattern of figures to determine number of tiles in the sixth figure.	72	2.1	76	2.4	68	3.3
L04	Yes	Shown pattern of shapes, which of the following is arranged in the same pattern?	87	1.5	84	2.3	90	1.9
L09	Yes	Given statements about the relative ages of three children, which statement must also be true?	68	2.1	69	2.7	66	3.0
M09	Yes	4 x _ <17: Which number could go in the blank to make the sentence true?	79	1.6	79	2.4	80	2.4
U04	Yes	Explain operation used to find next number in a pattern.	40	1.5	40	2.1	39	2.1

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Japan SCALE=Whole Numbers

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
A03	No	Find number of pencils given pencils/box and number of boxes.	62	0.9	61	1.2	62	1.2
A04	No	Find number of small squares given groupings of hundreds, tens, and ones.	86	0.8	86	0.9	87	1.0
B08	No	Which addition expression has the same value as 342?	89	0.8	90	1.0	89	1.0
C04	No	Which expression shows how long it will take to wash 8 windows at 4 minutes/window?	85	0.8	85	1.3	85	1.2
E02	No	Which digit is in the hundreds place in 2345?	88	0.8	87	1.2	89	1.2
F07	No	What number equals 3 ones + 5 tens + 4 hundreds + 60 thousands?	73	1.0	77	1.5	70	1.4
H07	No	Determine the relative magnitude of three-digit numbers when digits are rearranged.	81	1.2	82	1.6	79	1.7
H09	No	Which number is equal to eight tens plus nine tens?	61	1.1	61	1.8	62	1.7
I03	Yes	Which of the numbers below, when subtracted from 900, yields an answer greater than 300?	53	2.3	52	3.0	54	3.4
I04	Yes	What is 3 times 23?	85	1.5	81	2.4	90	1.9
I09	Yes	Subtract: 6000-2369.	73	1.9	74	2.7	71	2.9
J04	Yes	25 x 18 is more than 24 x 18. How much more?	48	2.2	55	3.3	40	2.6
J09	Yes	Given chart with consecutive numbers in rows, extend pattern to find the number in square.	83	1.6	85	2.3	80	2.6
K02	Yes	Add: 6971 + 5291	88	1.5	88	2.2	88	2.2
L07	Yes	In which of the following pairs of numbers is the 2nd number 100 more than the 1st?	65	2.2	69	2.8	60	3.1
M03	Yes	Recognize symmetric property of multiplication: 7 x _ is the same as what?	79	2.1	79	3.0	79	2.4
M06	Yes	John wanted to add 1463 + 319, but entered 1263 + 319. How could he fix his mistake?	81	1.7	85	2.2	77	2.6
M08	Yes	Which of the following four-digit numbers is the largest?	91	1.3	93	1.7	89	1.9
S02	Yes	Complete number sentence: 2000+?+30+9=2739.	73	1.3	77	1.6	69	1.9
T02	Yes	Arrange four digits to make the smallest possible whole number.	20	1.6	23	2.2	17	1.7
U05	Yes	Write addition fact as a multiplication fact.	86	1.3	88	1.6	83	1.6
V02	Yes	Write the number that is 1000 more than 56,821.	69	1.7	75	2.1	62	2.4
V03	Yes	What is 5 less than 203?	72	1.6	77	2.3	66	2.0
V04A	Yes	Arrange 4 digits as addition of 2 2-digit numbers. Which sum is greater? How do you know?	25	1.5	26	1.9	25	1.8
V04B	Yes	Arrange 4 digits as addition of 2 2-digit numbers. Find arrangement with sum greater than either of above.	59	1.7	60	2.3	57	2.2

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Korea SCALE=Data Rep., Analysis and Probability

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
B05	No	Multi-step graph problem: determine Sarah's relative height, then her height from graph.	59	1.9	59	2.5	58	2.2
C01	No	Shown graph (20 unit increments), which class collected 45 bottles?	93	0.8	94	1.2	92	1.2
D05	No	Shown bar graph, which two classes collected exactly 80 bottles?	95	0.6	95	0.9	95	1.0
F05	No	Shown temperature chart, when was the highest temperature recorded?	85	1.2	84	1.7	86	1.6
J03	Yes	Shown pie graph of how Mary spent her day, how much time did she spend on two categories combined?	90	1.7	89	2.5	90	2.5
K04	Yes	Add points from various rounds of a game to determine who won game and by how much.	34	2.6	39	3.7	28	3.6
L01	Yes	Given graph showing numbers of trees, how many trees does each symbol represent?	40	2.4	45	4.2	36	3.6
L02	Yes	Given bags containing different numbers of marbles, determine greatest chance of choosing red marble.	36	2.4	38	3.3	34	3.5
M01	Yes	Given several hexagons with various parts shaded, find greatest chance of stone landing on shaded area.	81	2.1	86	2.8	75	3.2
M02	Yes	Multi-step word problem: add 6 one-digit numbers and subtract from 60.	66	2.6	71	3.6	60	3.8
S01	Yes	Given table of frequencies, complete bar graph for same information.	69	2.0	65	2.9	72	2.6
T01A	Yes	Read simple information from bar graph.	89	1.3	91	1.5	88	1.9
T01B	Yes	Read information from bar graph and add to find a total.	54	2.0	55	2.9	53	2.6

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Korea SCALE=Fractions and Proportionality

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                                                                                        Third Grade

                                                                         Overall      Boys       Girls

 ITEM     REL  LABEL                                                       %   (se)    %   (se)   %   (se)
 ---------------------------------------------------------------------------------------------------------
 A01      No   In which figure are one-half of the dots black?           27   1.4    30  1.5     24  1.8
 A02      No   Determine total number from ratio and one number.         35   1.2    35  1.6     35  1.5
 B09      No   What is the sum of 2.5 and 3.8?                           94   0.5    94  0.7     94  0.9
 C03      No   Which figure shows 2/3 of the square shaded?             82   1.3    79  1.7     85  1.7
 D08      No   Subtract:  4.03 - 1.15.                                   82   1.3    81  1.8     82  1.8
 D09      No   Which of the following diagram has three out of every four squares shaded?  53  1.7  53  2.2  52  2.2
 E04      No   Which of the following numbers means 7/10?               60   1.9    65  2.3     54  2.6
 F06      No   Janis ate 1/2 cake, Maija ate 1/4, mother ate 1/4, how much remains?  39  1.6  41  2.4  37  2.2
 G01      No   Given map and legend, how far apart are two cities?      40   1.6    44  2.4     36  2.1
 I02      Yes  Which of the following word expressions is the same as .4?  55  2.7  57  3.9  52  3.9
 I05      Yes  If five tomatoes make 1/2 liter of sauce, how much sauce do 15 tomatoes make?  53  2.7  63  3.8  42  3.8
 I08      Yes  Shown four diagrams with various fractions shaded, which two represent the same fraction?  44  2.8  44  4.1  44  3.4
 J07      Yes  Shown a square divided into 9 squares, 5 of which are shaded, what fraction of the figure is shaded?  85  2.0  85  2.8  86  2.8
 K09      Yes  54 marbles are equally divided into 6 bags.  How many marbles in 2 bags?  32  2.5  30  3.2  34  3.4
 M05      Yes  Given partly shaded figure, which of the following numbers represents the shaded part?  64  2.6  67  3.3  61  4.2
 S03      Yes  Solve word problem: 96.4-33.2                             34   1.9    33  2.7     35  2.6
 S04      Yes  Solve word problem: 10/30 = ?/90.                        55   2.1    58  2.7     51  2.8
 T04A     Yes  Does 10 girls and 20 boys mean one girl for every two boys?  Explain.  31  1.7  29  2.1  33  2.9
 T04B     Yes  Does 10 girls and 20 boys mean half of all students are girls?  Explain.  20  1.6  21  1.9  20  2.4
 U02      Yes  Write a fraction that is larger than 2/7.                72   2.2    72  2.9     73  2.9
 U03A     Yes  Solve word problem using proportions:  3/10 = 9/?        63   1.8    73  2.4     54  2.4
 U03B     Yes  Solve word problem using proportions: 1/3 = 9/?          41   1.7    46  2.4     37  2.4
 U03C     Yes  Solve two proportions and compare results.               61   1.8    61  2.5     61  2.7
 V01      Yes  Is 1/3 less than 1/4?  Shade appropriate parts of a circle to demonstrate.  31  2.1  33  3.0  30  2.6
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REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Korea SCALE=Geometry

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
B06	No	Which of these solids has both a flat surface and a curved surface?	56	1.4	55	2.1	57	2.0
D07	No	Which two figures are congruent?	90	1.0	91	1.1	88	1.3
F09	No	Which of the following must be true of a triangle?	85	1.3	85	1.6	84	1.8
H05	No	Shown diagram of a figure made of blocks, which of the following could be the figure after it is turned?	44	1.6	52	2.0	35	1.9
I01	Yes	Shown map with city blocks, and given directions to school, locate school on map.	59	2.9	63	3.5	55	4.1
I06	Yes	Which of the following figures is made with straight sides only?	86	1.7	85	2.4	88	2.5
J01	Yes	Shown hexagon divided into six triangles, identify smaller shape. (recognize triangles)	75	2.0	79	3.2	72	3.1
J02	Yes	Shown several drawings with a line through each, which does not show a line of symmetry?	77	2.2	74	3.4	80	2.9
K01	Yes	Shown figure with overlapping shapes, which number is in square and circle, but not in triangle?	34	2.7	36	3.8	32	3.6
K08	Yes	Which of the following rectangles is not divided into 4 equal parts?	83	1.9	83	2.4	84	3.1
L03	Yes	Shown "game board" graph, which object is located at (2,D)?	89	1.8	89	2.4	89	2.4
L05	Yes	Shown diagram of cube with one edge labeled, how many edges does the cube have?	48	2.7	48	4.0	49	3.8
M04	Yes	Given explanation of how grid works, give the coordinates of a particular point.	38	2.8	44	3.8	30	4.1
T05	Yes	Shown picture of folded paper with shape cut out, draw picture of cut-out when unfolded.	73	1.9	71	2.6	75	2.5

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Korea SCALE=Measurement, Estimation, & Number Sense

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
A05	No	Which of these figures has the largest area?	74	0.9	75	1.2	72	1.2
B07	No	Word problem: best estimate of 84 x 57.	36	1.2	37	1.8	35	1.7
C02	No	Find volume of a stack of 5 cubes.	85	1.2	87	1.8	82	1.7
D06	No	How many degrees did temperature rise from minus 3 to 5?	47	1.7	53	2.5	39	2.2
E01	No	Shown calendar, what date is three weeks after December 2?	69	1.6	71	1.9	68	2.4
E03	No	Which of the following numbers would be rounded to 600 when rounded to the nearest hundred?	91	0.9	92	1.2	90	1.1
F08	No	Which units would be best to measure the weight (mass) of an egg?	64	1.9	66	2.4	62	2.3
G02	No	Which of the following could be the weight (mass) of an adult?	82	1.2	83	1.6	82	1.7
H06	No	Shown 6 x 4 rectangle, which of the following expressions gives the perimeter of the rectangle?	69	1.6	72	1.9	64	2.6
J06	Yes	Which of the following weight (mass) measures is the largest?	81	2.1	86	2.9	76	3.4
J08	Yes	Word problem: best estimate of 57 + 62 + 59.	49	2.6	51	3.6	47	3.7
K05	Yes	About how many centimeters is this picture of a pencil?	84	2.1	87	2.4	81	2.9
K07	Yes	A 20 cm wire is formed into a rectangle with width 4cm. What is the length?	37	2.6	40	3.6	34	4.2
L06	Yes	Given 1 clothespin = 9.2 g, which is the best estimate of the weight (mass) of 1000?	64	2.5	61	4.2	67	3.1
L08	Yes	Given number of paces in which each of several children cross the room, who had the longest pace?	45	2.5	42	3.8	49	3.6
M07	Yes	Which of the following would most likely be measured in milliliters?	25	2.2	22	3.0	28	3.3
S05	Yes	Given picture of a paper clip, about how many lengths of the clip is the length of this line?	48	2.4	51	3.4	45	2.9
T03	Yes	Mr. Brown talks a 1 hour and 30 minute walk and returns at 7:00. At what time did he start?	58	2.0	64	2.6	52	2.5
U01	Yes	Given a triangle and large irregular figure, how many triangles will cover the figure?	67	1.8	66	2.4	68	2.5
V05	Yes	How many millimeters are in a meter?	34	1.8	39	2.8	29	2.3

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Korea SCALE=Patterns, Relations and Functions

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
G04	No	Given symbol for number of magazines read in a week, select expression for number read in 6 weeks.	65	1.7	67	2.2	63	2.1
H08	No	Given number pattern, what are the next three numbers?	83	1.2	83	1.5	82	1.8
I07	Yes	Given a 130 page book, and 78 pages read, which expression gives the number of pages remaining?	83	2.4	79	3.3	86	2.6
J05	Yes	Determine common operation between four pairs of numbers.	50	3.0	57	4.1	43	4.1
K03	Yes	Which pair of numbers follows the rule 'multiply by 5'?	64	2.5	65	3.8	62	3.4
K06	Yes	Extend pattern of figures to determine number of tiles in the sixth figure.	73	2.2	75	3.3	70	3.2
L04	Yes	Shown pattern of shapes, which of the following is arranged in the same pattern?	89	1.8	86	2.8	92	2.2
L09	Yes	Given statements about the relative ages of three children, which statement must also be true?	80	1.9	82	3.0	77	2.6
M09	Yes	4 x _ <17: Which number could go in the blank to make the sentence true?	88	1.7	90	2.3	86	2.7
U04	Yes	Explain operation used to find next number in a pattern.	56	1.9	55	2.9	57	2.6

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Korea SCALE=Whole Numbers

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
A03	No	Find number of pencils given pencils/box and number of boxes.	73	0.9	74	1.1	72	1.2
A04	No	Find number of small squares given groupings of hundreds, tens, and ones.	92	0.6	93	0.7	91	0.7
B08	No	Which addition expression has the same value as 342?	95	0.6	95	0.8	95	1.0
C04	No	Which expression shows how long it will take to wash 8 windows at 4 minutes/window?	90	1.1	90	1.5	89	1.2
E02	No	Which digit is in the hundreds place in 2345?	90	1.0	90	1.4	90	1.4
F07	No	What number equals 3 ones + 5 tens + 4 hundreds + 60 thousands?	62	1.7	64	2.2	60	2.4
G03	No	Which of the following is a name for 9740?	98	0.5	99	0.5	97	0.8
H07	No	Determine the relative magnitude of three-digit numbers when digits are rearranged.	93	0.9	95	1.0	90	1.5
H09	No	Which number is equal to eight tens plus nine tens?	89	1.0	91	1.2	87	1.6
I03	Yes	Which of the numbers below, when subtracted from 900, yields an answer greater than 300?	72	2.4	75	3.2	68	3.9
I04	Yes	What is 3 times 23?	74	2.6	84	2.9	65	4.3
I09	Yes	Subtract: 6000-2369.	88	2.1	90	2.5	85	3.2
J04	Yes	25 x 18 is more than 24 x 18. How much more?	58	3.1	66	4.1	51	3.6
J09	Yes	Given chart with consecutive numbers in rows, extend pattern to find the number in square.	90	1.7	88	2.5	92	2.3
K02	Yes	Add: 6971 + 5291	95	1.1	92	1.9	98	1.2
L07	Yes	In which of the following pairs of numbers is the 2nd number 100 more than the 1st?	70	2.4	75	3.3	65	4.2
M03	Yes	Recognize symmetric property of multiplication: 7 x _ is the same as what?	75	2.4	77	3.3	72	3.3
M06	Yes	John wanted to add 1463 + 319, but entered 1263 + 319. How could he fix his mistake?	84	2.2	88	2.4	80	3.4
M08	Yes	Which of the following four-digit numbers is the largest?	92	1.6	91	2.1	93	2.2
S02	Yes	Complete number sentence: 2000+?+30+9=2739.	81	1.5	81	2.2	80	2.2
T02	Yes	Arrange four digits to make the smallest possible whole number.	88	1.4	89	1.6	86	2.1
U05	Yes	Write addition fact as a multiplication fact.	91	1.4	90	1.7	92	1.5
V02	Yes	Write the number that is 1000 more than 56,821.	73	1.6	75	2.4	70	2.2
V03	Yes	What is 5 less than 203?	78	1.4	83	1.7	72	2.3
V04A	Yes	Arrange 4 digits as addition of 2 2-digit numbers. Which sum is greater? How do you know?	47	2.5	45	3.4	50	3.2
V04B	Yes	Arrange 4 digits as addition of 2 2-digit numbers. Find arrangement with sum greater than either of above.	48	2.2	51	3.4	45	2.5

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Latvia (LSS) SCALE=Data Rep., Analysis and Probability

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
B05	No	Multi-step graph problem: determine Sarah's relative height, then her height from graph.	54	1.5	49	2.3	60	2.4
C01	No	Shown graph (20 unit increments), which class collected 45 bottles?	60	2.3	62	3.3	58	2.4
D05	No	Shown bar graph, which two classes collected exactly 80 bottles?	50	2.1	49	2.8	51	2.8
F05	No	Shown temperature chart, when was the highest temperature recorded?	47	2.4	48	3.2	46	2.9
J03	Yes	Shown pie graph of how Mary spent her day, how much time did she spend on two categories combined?	59	3.1	61	5.0	57	3.9
K04	Yes	Add points from various rounds of a game to determine who won game and by how much.	29	2.8	25	3.9	32	4.2
L01	Yes	Given graph showing numbers of trees, how many trees does each symbol represent?	20	2.9	20	3.7	20	3.9
L02	Yes	Given bags containing different numbers of marbles, determine greatest chance of choosing red marble.	23	2.6	20	3.8	26	3.8
M01	Yes	Given several hexagons with various parts shaded, find greatest chance of stone landing on shaded area.	72	3.2	76	4.8	69	4.0
M02	Yes	Multi-step word problem: add 6 one-digit numbers and subtract from 60.	44	3.4	46	4.8	42	4.6
S01	Yes	Given table of frequencies, complete bar graph for same information.	16	1.8	14	2.9	18	2.4
T01A	Yes	Read simple information from bar graph.	47	2.5	50	3.3	44	3.4
T01B	Yes	Read information from bar graph and add to find a total.	18	2.1	20	2.9	16	2.5

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Latvia (LSS) SCALE=Fractions and Proportionality

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
A01	No	In which figure are one-half of the dots black?	80	1.2	80	1.7	81	1.6
A02	No	Determine total number from ratio and one number.	41	1.8	40	2.4	43	2.0
B09	No	What is the sum of 2.5 and 3.8?	32	2.4	31	3.2	33	2.8
C03	No	Which figure shows 2/3 of the square shaded?	34	2.2	33	2.8	36	2.7
D08	No	Subtract: 4.03 - 1.15.	28	2.2	32	2.6	25	3.0
D09	No	Which of the following diagram has three out of every four squares shaded?	40	2.2	40	2.8	39	3.0
E04	No	Which of the following numbers means 7/10?	14	2.0	11	2.1	16	2.9
F06	No	Janis ate 1/2 cake, Maija ate 1/4, mother ate 1/4, how much remains?	60	2.3	60	2.8	61	3.0
I02	Yes	Which of the following word expressions is the same as .4?	13	2.7	15	3.8	11	2.9
I05	Yes	If five tomatoes make 1/2 liter of sauce, how much sauce do 15 tomatoes make?	37	3.5	35	4.4	40	4.6
I08	Yes	Shown four diagrams with various fractions shaded, which two represent the same fraction?	45	3.7	40	4.6	51	4.4
J07	Yes	Shown a square divided into 9 squares, 5 of which are shaded, what fraction of the figure is shaded?	18	2.6	19	3.7	18	3.7
K09	Yes	54 marbles are equally divided into 6 bags. How many marbles in 2 bags?	37	3.7	38	5.2	36	4.6
M05	Yes	Given partly shaded figure, which of the following numbers represents the shaded part?	26	2.9	28	4.6	24	3.4
S03	Yes	Solve word problem: 96.4-33.2	8	1.4	8	1.5	9	2.3
S04	Yes	Solve word problem: 10/30 = ?/90.	26	2.2	25	3.0	27	2.9
T04A	Yes	Does 10 girls and 20 boys mean one girl for every two boys? Explain.	3	0.7	3	1.1	3	1.0
T04B	Yes	Does 10 girls and 20 boys mean half of all students are girls? Explain.	1	0.4	1	0.7	1	0.5
U02	Yes	Write a fraction that is larger than 2/7.	12	1.6	11	2.1	13	2.3
U03A	Yes	Solve word problem using proportions: 3/10 = 9/?	45	2.3	45	3.4	44	3.6
U03B	Yes	Solve word problem using proportions: 1/3 = 9/?	28	2.7	26	3.2	30	3.5
U03C	Yes	Solve two proportions and compare results.	51	2.3	46	3.5	55	3.4
V01	Yes	Is 1/3 less than 1/4? Shade appropriate parts of a circle to demonstrate.	9	1.5	9	1.9	10	1.9

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Latvia (LSS) SCALE=Geometry

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
B06	No	Which of these solids has both a flat surface and a curved surface?	30	2.0	31	2.5	29	2.5
D07	No	Which two figures are congruent?	89	1.6	88	2.1	90	1.9
F09	No	Which of the following must be true of a triangle?	63	1.6	64	2.0	62	2.9
H05	No	Shown diagram of a figure made of blocks, which of the following could be the figure after it is turned?	59	2.2	58	2.9	60	2.7
I01	Yes	Shown map with city blocks, and given directions to school, locate school on map.	46	3.8	50	4.7	41	5.6
I06	Yes	Which of the following figures is made with straight sides only?	85	2.2	84	3.6	86	2.5
J01	Yes	Shown hexagon divided into six triangles, identify smaller shape. (recognize triangles)	87	2.2	82	4.0	91	2.7
J02	Yes	Shown several drawings with a line through each, which does not show a line of symmetry?	50	3.3	51	4.9	48	4.3
K01	Yes	Shown figure with overlapping shapes, which number is in square and circle, but not in triangle?	45	2.7	46	5.0	45	4.2
K08	Yes	Which of the following rectangles is not divided into 4 equal parts?	58	3.7	59	5.0	58	4.6
L03	Yes	Shown "game board" graph, which object is located at (2,D)?	70	2.9	71	4.5	69	3.7
L05	Yes	Shown diagram of cube with one edge labeled, how many edges does the cube have?	29	3.2	33	3.9	26	4.8
M04	Yes	Given explanation of how grid works, give the coordinates of a particular point.	33	3.2	30	4.7	36	4.6
T05	Yes	Shown picture of folded paper with shape cut out, draw picture of cut-out when unfolded.	47	2.9	41	4.0	52	3.3

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Latvia (LSS) SCALE=Measurement, Estimation, & Number Sense

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
A05	No	Which of these figures has the largest area?	87	0.9	87	1.2	87	1.2
B07	No	Word problem: best estimate of 84 x 57.	27	1.8	27	2.5	27	2.4
C02	No	Find volume of a stack of 5 cubes.	64	2.0	64	2.7	64	2.7
D06	No	How many degrees did temperature rise from minus 3 to 5?	57	2.0	63	2.5	51	2.5
E01	No	Shown calendar, what date is three weeks after December 2?	51	2.2	48	3.1	54	2.8
E03	No	Which of the following numbers would be rounded to 600 when rounded to the nearest hundred?	45	2.0	43	2.3	46	2.8
F08	No	Which units would be best to measure the weight (mass) of an egg?	56	2.2	56	2.9	55	2.7
H06	No	Shown 6 x 4 rectangle, which of the following expressions gives the perimeter of the rectangle?	69	1.9	72	2.3	67	2.4
J06	Yes	Which of the following weight (mass) measures is the largest?	64	3.4	62	5.2	66	4.3
J08	Yes	Word problem: best estimate of 57 + 62 + 59.	31	3.5	29	4.8	34	4.8
K05	Yes	About how many centimeters is this picture of a pencil?	83	3.1	83	4.7	84	3.5
K07	Yes	A 20 cm wire is formed into a rectangle with width 4cm. What is the length?	19	2.7	18	3.6	19	4.0
L06	Yes	Given 1 clothespin = 9.2 g, which is the best estimate of the weight (mass) of 1000?	34	3.2	34	5.0	33	4.3
L08	Yes	Given number of paces in which each of several children cross the room, who had the longest pace?	29	3.0	31	4.2	27	3.6
M07	Yes	Which of the following would most likely be measured in milliliters?	29	3.5	30	5.3	28	4.1
S05	Yes	Given picture of a paper clip, about how many lengths of the clip is the length of this line?	22	2.1	19	2.5	25	2.9
T03	Yes	Mr. Brown talks a 1 hour and 30 minute walk and returns at 7:00. At what time did he start?	40	2.5	42	4.1	38	2.9
U01	Yes	Given a triangle and large irregular figure, how many triangles will cover the figure?	29	2.5	30	3.5	28	3.4
V05	Yes	How many millimeters are in a meter?	51	2.4	52	3.4	50	3.7

REL: Release Status (Yes= Item in Released Item Set)

Third International Mathematics and Science Study - 1995 Assessment
Percent Correct on the Mathematics Items - Third Grade

May 11, 1998 83

COUNTRY ID=Latvia (LSS) SCALE=Patterns, Relations and Functions

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
G04	No	Given symbol for number of magazines read in a week, select expression for number read in 6 weeks.	44	2.0	44	2.7	45	2.7
H08	No	Given number pattern, what are the next three numbers?	60	1.9	56	2.5	64	2.8
I07	Yes	Given a 130 page book, and 78 pages read, which expression gives the number of pages remaining?	52	3.5	54	4.6	50	4.5
J05	Yes	Determine common operation between four pairs of numbers.	40	3.5	44	5.1	37	4.5
K03	Yes	Which pair of numbers follows the rule 'multiply by 5'?	41	3.3	37	4.7	44	4.9
K06	Yes	Extend pattern of figures to determine number of tiles in the sixth figure.	57	3.3	55	4.6	60	4.9
L04	Yes	Shown pattern of shapes, which of the following is arranged in the same pattern?	75	2.6	71	3.8	79	3.4
L09	Yes	Given statements about the relative ages of three children, which statement must also be true?	38	3.3	34	3.9	42	4.5
M09	Yes	4 x _ <17: Which number could go in the blank to make the sentence true?	72	3.2	74	4.8	68	4.1
U04	Yes	Explain operation used to find next number in a pattern.	51	2.7	45	3.7	57	3.3

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Latvia (LSS) SCALE=Whole Numbers

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
A03	No	Find number of pencils given pencils/box and number of boxes.	35	1.7	38	2.0	33	2.2
A04	No	Find number of small squares given groupings of hundreds, tens, and ones.	74	1.1	75	1.6	74	1.5
B08	No	Which addition expression has the same value as 342?	88	1.1	89	1.6	86	1.6
C04	No	Which expression shows how long it will take to wash 8 windows at 4 minutes/window?	69	2.1	69	2.6	69	3.0
E02	No	Which digit is in the hundreds place in 2345?	56	2.2	57	3.0	55	3.1
F07	No	What number equals 3 ones + 5 tens + 4 hundreds + 60 thousands?	58	2.2	57	3.1	59	2.8
G03	No	Which of the following is a name for 9740?	78	1.7	80	2.5	77	2.0
H07	No	Determine the relative magnitude of three-digit numbers when digits are rearranged.	62	2.1	60	3.0	65	2.6
H09	No	Which number is equal to eight tens plus nine tens?	64	1.9	62	2.6	65	2.8
I03	Yes	Which of the numbers below, when subtracted from 900, yields an answer greater than 300?	56	3.5	51	4.7	61	4.6
I04	Yes	What is 3 times 23?	88	2.2	90	2.9	87	3.4
I09	Yes	Subtract: 6000-2369.	42	4.0	40	5.0	43	5.2
J04	Yes	25 x 18 is more than 24 x 18. How much more?	30	3.6	32	5.3	29	4.6
J09	Yes	Given chart with consecutive numbers in rows, extend pattern to find the number in square.	53	3.1	46	5.1	60	4.3
K02	Yes	Add: 6971 + 5291	36	2.9	37	4.2	36	4.3
L07	Yes	In which of the following pairs of numbers is the 2nd number 100 more than the 1st?	29	3.6	32	4.6	25	4.4
M03	Yes	Recognize symmetric property of multiplication: 7 x _ is the same as what?	53	3.8	53	5.0	52	4.6
M06	Yes	John wanted to add 1463 + 319, but entered 1263 + 319. How could he fix his mistake?	58	3.2	62	4.9	53	4.6
M08	Yes	Which of the following four-digit numbers is the largest?	77	2.6	78	4.0	76	3.2
S02	Yes	Complete number sentence: 2000+?+30+9=2739.	36	2.6	41	3.6	31	3.1
T02	Yes	Arrange four digits to make the smallest possible whole number.	22	2.4	19	2.8	25	3.2
U05	Yes	Write addition fact as a multiplication fact.	66	2.5	61	3.2	71	3.2
V02	Yes	Write the number that is 1000 more than 56,821.	16	2.0	17	2.5	15	2.5
V03	Yes	What is 5 less than 203?	40	2.2	41	2.9	39	3.5
V04A	Yes	Arrange 4 digits as addition of 2 2-digit numbers. Which sum is greater? How do you know?	3	0.9	2	0.9	4	1.3
V04B	Yes	Arrange 4 digits as addition of 2 2-digit numbers. Find arrangement with sum greater than either of above.	17	1.9	16	2.6	19	2.7

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Netherlands SCALE=Data Rep., Analysis and Probability

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
B05	No	Multi-step graph problem: determine Sarah's relative height, then her height from graph.	61	1.5	58	2.4	63	1.9
C01	No	Shown graph (20 unit increments), which class collected 45 bottles?	82	1.6	81	2.2	82	2.0
D05	No	Shown bar graph, which two classes collected exactly 80 bottles?	78	1.6	74	2.3	82	1.6
F05	No	Shown temperature chart, when was the highest temperature recorded?	65	1.8	65	2.1	64	2.4
J03	Yes	Shown pie graph of how Mary spent her day, how much time did she spend on two categories combined?	74	2.3	75	3.6	73	3.4
K04	Yes	Add points from various rounds of a game to determine who won game and by how much.	50	2.9	55	4.1	44	4.7
L01	Yes	Given graph showing numbers of trees, how many trees does each symbol represent?	30	2.6	33	3.5	25	3.4
L02	Yes	Given bags containing different numbers of marbles, determine greatest chance of choosing red marble.	56	2.6	58	3.8	55	4.2
M01	Yes	Given several hexagons with various parts shaded, find greatest chance of stone landing on shaded area.	80	2.3	80	3.3	81	3.0
M02	Yes	Multi-step word problem: add 6 one-digit numbers and subtract from 60.	55	2.6	58	4.0	52	3.8
S01	Yes	Given table of frequencies, complete bar graph for same information.	18	1.6	20	2.6	17	2.0
T01A	Yes	Read simple information from bar graph.	78	2.0	78	2.4	76	2.5
T01B	Yes	Read information from bar graph and add to find a total.	25	1.8	27	2.1	23	3.1

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Netherlands SCALE=Fractions and Proportionality

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
A01	No	In which figure are one-half of the dots black?	91	0.8	92	0.8	90	1.1
A02	No	Determine total number from ratio and one number.	69	1.3	69	1.6	69	1.5
B09	No	What is the sum of 2.5 and 3.8?	50	1.5	54	1.9	46	2.2
C03	No	Which figure shows 2/3 of the square shaded?	28	1.9	26	2.3	29	2.7
D08	No	Subtract: 4.03 - 1.15.	50	1.8	51	2.5	50	2.7
D09	No	Which of the following diagram has three out of every four squares shaded?	46	1.9	49	2.8	43	2.2
E04	No	Which of the following numbers means 7/10?	19	1.6	19	2.0	20	2.1
F06	No	Janis ate 1/2 cake, Maija ate 1/4, mother ate 1/4, how much remains?	54	1.6	54	2.1	53	2.1
G01	No	Given map and legend, how far apart are two cities?	38	1.8	42	2.1	34	2.4
I02	Yes	Which of the following word expressions is the same as .4?	6	1.5	6	2.1	6	1.9
I05	Yes	If five tomatoes make 1/2 liter of sauce, how much sauce do 15 tomatoes make?	42	2.5	45	4.2	37	3.3
I08	Yes	Shown four diagrams with various fractions shaded, which two represent the same fraction?	56	2.7	55	4.1	57	3.8
J07	Yes	Shown a square divided into 9 squares, 5 of which are shaded, what fraction of the figure is shaded?	30	3.3	26	4.2	33	4.2
K09	Yes	54 marbles are equally divided into 6 bags. How many marbles in 2 bags?	34	2.6	36	3.6	31	3.8
M05	Yes	Given partly shaded figure, which of the following numbers represents the shaded part?	33	2.7	38	4.1	29	3.4
S03	Yes	Solve word problem: 96.4-33.2	8	1.0	8	1.4	9	1.3
S04	Yes	Solve word problem: 10/30 = ?/90.	48	2.3	52	3.5	45	2.8
T04A	Yes	Does 10 girls and 20 boys mean one girl for every two boys? Explain.	16	1.7	13	1.8	20	2.7
T04B	Yes	Does 10 girls and 20 boys mean half of all students are girls? Explain.	8	1.0	4	1.1	11	1.9
U02	Yes	Write a fraction that is larger than 2/7.	32	1.7	27	2.2	37	2.9
U03A	Yes	Solve word problem using proportions: 3/10 = 9/?	58	2.0	65	2.3	50	3.2
U03B	Yes	Solve word problem using proportions: 1/3 = 9/?	39	2.1	44	2.8	33	2.9
U03C	Yes	Solve two proportions and compare results.	80	1.2	77	2.1	83	2.2
V01	Yes	Is 1/3 less than 1/4? Shade appropriate parts of a circle to demonstrate.	14	2.1	14	2.1	14	2.5

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Netherlands SCALE=Geometry

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                                                                                                 Third Grade

                                                                                  Overall      Boys       Girls

ITEM   REL   LABEL                                                                  %   (se)    %   (se)    %   (se)
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B06    No    Which of these solids has both a flat surface and a curved surface?   43   1.4    44   2.1    42   2.0
D07    No    Which two figures are congruent?                                      85   1.4    87   1.6    84   2.0
F09    No    Which of the following must be true of a triangle?                    71   1.3    72   1.6    70   2.0
H05    No    Shown diagram of a figure made of blocks, which of the following could be the figure after it is turned?  35   1.6    36   2.4    34   2.2
I01    Yes   Shown map with city blocks, and given directions to school, locate school on map.   44   2.7    45   3.9    43   4.0
I06    Yes   Which of the following figures is made with straight sides only?      77   2.5    82   3.8    71   4.1
J01    Yes   Shown hexagon divided into six triangles, identify smaller shape. (recognize triangles)   94   1.4    92   2.1    95   1.7
J02    Yes   Shown several drawings with a line through each, which does not show a line of symmetry?   33   2.8    32   4.4    35   3.9
K01    Yes   Shown figure with overlapping shapes, which number is in square and circle, but not in triangle?   61   3.2    61   3.7    62   4.9
K08    Yes   Which of the following rectangles is not divided into 4 equal parts?   78   2.5    72   3.9    85   3.1
L03    Yes   Shown "game board" graph, which object is located at (2,D)?           92   1.7    93   2.1    90   2.7
L05    Yes   Shown diagram of cube with one edge labeled, how many edges does the cube have?   43   2.8    42   3.8    45   3.4
M04    Yes   Given explanation of how grid works, give the coordinates of a particular point.   40   2.8    39   4.4    42   3.6
T05    Yes   Shown picture of folded paper with shape cut out, draw picture of cut-out when unfolded.   55   2.1    55   2.9    56   2.7
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REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Netherlands SCALE=Measurement, Estimation, & Number Sense

			Third Grade					
			Overall		Boys		Girls	
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
A05	No	Which of these figures has the largest area?	77	1.2	77	1.3	77	1.5
B07	No	Word problem: best estimate of 84 x 57.	34	1.4	35	2.0	33	1.7
C02	No	Find volume of a stack of 5 cubes.	71	1.7	71	2.3	71	2.3
D06	No	How many degrees did temperature rise from minus 3 to 5?	64	1.5	66	2.4	63	2.1
E01	No	Shown calendar, what date is three weeks after December 2?	71	1.4	69	2.6	73	1.8
E03	No	Which of the following numbers would be rounded to 600 when rounded to the nearest hundred?	68	1.7	71	2.2	64	2.8
F08	No	Which units would be best to measure the weight (mass) of an egg?	72	1.8	73	2.3	70	2.6
G02	No	Which of the following could be the weight (mass) of an adult?	84	1.2	84	1.5	84	1.8
H06	No	Shown 6 x 4 rectangle, which of the following expressions gives the perimeter of the rectangle?	33	1.9	36	2.6	31	2.1
J06	Yes	Which of the following weight (mass) measures is the largest?	85	1.6	85	2.7	85	2.6
J08	Yes	Word problem: best estimate of 57 + 62 + 59.	38	3.1	39	4.6	37	4.0
K05	Yes	About how many centimeters is this picture of a pencil?	63	2.7	63	3.5	64	4.4
K07	Yes	A 20 cm wire is formed into a rectangle with width 4cm. What is the length?	31	2.8	30	4.0	32	3.3
L06	Yes	Given 1 clothespin = 9.2 g, which is the best estimate of the weight (mass) of 1000?	45	2.8	54	3.8	34	3.9
L08	Yes	Given number of paces in which each of several children cross the room, who had the longest pace?	40	2.8	40	3.6	40	3.7
M07	Yes	Which of the following would most likely be measured in milliliters?	21	2.0	18	3.0	22	3.2
S05	Yes	Given picture of a paper clip, about how many lengths of the clip is the length of this line?	41	2.4	44	3.4	39	3.1
T03	Yes	Mr. Brown talks a 1 hour and 30 minute walk and returns at 7:00. At what time did he start?	52	2.4	52	3.4	52	3.2
U01	Yes	Given a triangle and large irregular figure, how many triangles will cover the figure?	49	2.0	46	2.7	53	2.9
V05	Yes	How many millimeters are in a meter?	30	2.0	35	2.6	24	2.4

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Netherlands SCALE=Patterns, Relations and Functions

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
G04	No	Given symbol for number of magazines read in a week, select expression for number read in 6 weeks.	45	1.7	44	2.3	45	2.5
H08	No	Given number pattern, what are the next three numbers?	48	1.7	47	2.6	47	2.2
I07	Yes	Given a 130 page book, and 78 pages read, which expression gives the number of pages remaining?	52	3.7	48	4.3	57	4.8
J05	Yes	Determine common operation between four pairs of numbers.	30	3.2	30	4.5	31	4.7
K03	Yes	Which pair of numbers follows the rule 'multiply by 5'?	21	2.4	20	2.7	23	3.6
K06	Yes	Extend pattern of figures to determine number of tiles in the sixth figure.	65	3.0	68	4.5	62	4.3
L04	Yes	Shown pattern of shapes, which of the following is arranged in the same pattern?	75	2.3	75	3.5	76	3.5
L09	Yes	Given statements about the relative ages of three children, which statement must also be true?	56	2.5	56	3.3	55	4.2
M09	Yes	4 x _ <17: Which number could go in the blank to make the sentence true?	53	2.7	56	3.4	52	3.6
U04	Yes	Explain operation used to find next number in a pattern.	58	2.1	59	2.5	57	3.0

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Netherlands SCALE=Whole Numbers

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
A03	No	Find number of pencils given pencils/box and number of boxes.	37	1.2	40	1.5	33	1.5
A04	No	Find number of small squares given groupings of hundreds, tens, and ones.	79	1.1	81	1.3	77	1.4
B08	No	Which addition expression has the same value as 342?	89	1.0	91	1.4	87	1.4
C04	No	Which expression shows how long it will take to wash 8 windows at 4 minutes/window?	82	1.5	83	1.9	82	1.9
E02	No	Which digit is in the hundreds place in 2345?	62	2.3	66	2.7	58	2.9
F07	No	What number equals 3 ones + 5 tens + 4 hundreds + 60 thousands?	52	1.8	54	2.4	49	2.4
G03	No	Which of the following is a name for 9740?	82	1.1	82	1.6	81	1.8
H07	No	Determine the relative magnitude of three-digit numbers when digits are rearranged.	49	2.3	51	2.8	48	2.8
H09	No	Which number is equal to eight tens plus nine tens?	74	1.4	75	2.0	73	2.4
I03	Yes	Which of the numbers below, when subtracted from 900, yields an answer greater than 300?	44	2.5	46	4.0	43	3.7
I04	Yes	What is 3 times 23?	84	2.1	88	2.9	80	3.1
I09	Yes	Subtract: 6000-2369.	46	3.1	43	4.0	49	4.8
J04	Yes	25 x 18 is more than 24 x 18. How much more?	46	2.4	51	3.8	42	3.4
J09	Yes	Given chart with consecutive numbers in rows, extend pattern to find the number in square.	82	2.5	79	3.3	84	3.5
K02	Yes	Add: 6971 + 5291	57	3.0	57	3.9	58	4.1
L07	Yes	In which of the following pairs of numbers is the 2nd number 100 more than the 1st?	35	2.5	43	3.4	25	4.1
M03	Yes	Recognize symmetric property of multiplication: 7 x _ is the same as what?	55	3.0	52	4.1	57	4.2
M06	Yes	John wanted to add 1463 + 319, but entered 1263 + 319. How could he fix his mistake?	75	2.6	76	3.3	74	3.9
M08	Yes	Which of the following four-digit numbers is the largest?	88	1.9	87	2.7	88	2.3
S02	Yes	Complete number sentence: 2000+?+30+9=2739.	53	3.0	59	3.8	47	3.6
T02	Yes	Arrange four digits to make the smallest possible whole number.	32	1.8	32	2.6	31	2.7
U05	Yes	Write addition fact as a multiplication fact.	78	1.8	79	2.1	77	2.6
V02	Yes	Write the number that is 1000 more than 56,821.	24	1.7	30	3.0	17	1.9
V03	Yes	What is 5 less than 203?	53	2.2	57	3.0	49	3.0
V04A	Yes	Arrange 4 digits as addition of 2 2-digit numbers. Which sum is greater? How do you know?	8	1.0	9	1.6	8	1.4
V04B	Yes	Arrange 4 digits as addition of 2 2-digit numbers. Find arrangement with sum greater than either of above.	35	1.8	33	2.3	36	2.8

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=New Zealand SCALE=Data Rep., Analysis and Probability

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
B05	No	Multi-step graph problem: determine Sarah's relative height, then her height from graph.	55	2.0	51	2.7	59	2.4
C01	No	Shown graph (20 unit increments), which class collected 45 bottles?	77	2.0	75	2.2	78	2.7
D05	No	Shown bar graph, which two classes collected exactly 80 bottles?	70	2.0	65	3.1	76	2.2
F05	No	Shown temperature chart, when was the highest temperature recorded?	58	1.9	56	2.7	59	2.3
J03	Yes	Shown pie graph of how Mary spent her day, how much time did she spend on two categories combined?	55	2.9	53	3.7	57	4.8
K04	Yes	Add points from various rounds of a game to determine who won game and by how much.	28	2.9	31	4.6	27	3.5
L01	Yes	Given graph showing numbers of trees, how many trees does each symbol represent?	26	3.3	28	3.8	25	4.8
L02	Yes	Given bags containing different numbers of marbles, determine greatest chance of choosing red marble.	40	2.6	41	3.9	40	4.0
M01	Yes	Given several hexagons with various parts shaded, find greatest chance of stone landing on shaded area.	61	3.2	61	4.5	62	4.5
M02	Yes	Multi-step word problem: add 6 one-digit numbers and subtract from 60.	22	2.8	20	3.1	25	3.8
S01	Yes	Given table of frequencies, complete bar graph for same information.	26	2.1	26	3.1	26	2.5
T01A	Yes	Read simple information from bar graph.	57	2.7	58	3.4	57	3.7
T01B	Yes	Read information from bar graph and add to find a total.	9	1.3	8	1.6	9	2.0

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=New Zealand SCALE=Fractions and Proportionality

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
A01	No	In which figure are one-half of the dots black?	70	1.6	70	2.1	70	1.9
A02	No	Determine total number from ratio and one number.	48	1.4	48	1.6	48	1.8
B09	No	What is the sum of 2.5 and 3.8?	29	1.5	28	1.8	29	2.1
C03	No	Which figure shows 2/3 of the square shaded?	32	1.9	30	2.3	34	2.6
D08	No	Subtract: 4.03 - 1.15.	19	1.6	19	2.1	19	2.1
D09	No	Which of the following diagram has three out of every four squares shaded?	37	1.9	36	2.6	37	2.6
E04	No	Which of the following numbers means 7/10?	18	1.4	20	2.2	16	1.9
F06	No	Janis ate 1/2 cake, Maija ate 1/4, mother ate 1/4, how much remains?	62	2.2	59	2.8	64	3.2
G01	No	Given map and legend, how far apart are two cities?	29	1.8	31	2.1	28	2.4
I02	Yes	Which of the following word expressions is the same as .4?	10	1.9	10	2.7	11	2.7
I05	Yes	If five tomatoes make 1/2 liter of sauce, how much sauce do 15 tomatoes make?	37	3.0	39	4.5	35	4.6
I08	Yes	Shown four diagrams with various fractions shaded, which two represent the same fraction?	44	3.0	40	4.0	48	4.3
J07	Yes	Shown a square divided into 9 squares, 5 of which are shaded, what fraction of the figure is shaded?	36	3.2	32	3.9	41	4.7
K09	Yes	54 marbles are equally divided into 6 bags. How many marbles in 2 bags?	29	3.0	24	4.1	33	5.0
M05	Yes	Given partly shaded figure, which of the following numbers represents the shaded part?	26	2.9	27	3.6	25	3.7
S03	Yes	Solve word problem: 96.4-33.2	3	0.8	2	0.9	4	1.5
S04	Yes	Solve word problem: 10/30 = ?/90.	26	2.2	24	3.1	28	2.8
T04A	Yes	Does 10 girls and 20 boys mean one girl for every two boys? Explain.	14	1.6	11	1.7	17	2.3
T04B	Yes	Does 10 girls and 20 boys mean half of all students are girls? Explain.	7	1.0	4	1.2	9	1.7
U02	Yes	Write a fraction that is larger than 2/7.	38	2.3	37	3.2	40	3.2
U03A	Yes	Solve word problem using proportions: 3/10 = 9/?	38	2.6	38	3.1	39	3.9
U03B	Yes	Solve word problem using proportions: 1/3 = 9/?	20	2.5	18	2.1	22	4.1
U03C	Yes	Solve two proportions and compare results.	63	2.6	56	3.5	69	3.4
V01	Yes	Is 1/3 less than 1/4? Shade appropriate parts of a circle to demonstrate.	8	1.4	8	1.9	7	2.1

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=New Zealand SCALE=Geometry

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
B06	No	Which of these solids has both a flat surface and a curved surface?	56	1.8	52	2.4	60	2.3
D07	No	Which two figures are congruent?	76	1.8	75	2.4	78	2.2
F09	No	Which of the following must be true of a triangle?	69	2.1	66	2.9	73	2.8
H05	No	Shown diagram of a figure made of blocks, which of the following could be the figure after it is turned?	38	1.8	38	2.6	39	2.6
I01	Yes	Shown map with city blocks, and given directions to school, locate school on map.	47	3.7	49	5.0	45	4.7
I06	Yes	Which of the following figures is made with straight sides only?	67	3.5	63	4.9	72	4.4
J01	Yes	Shown hexagon divided into six triangles, identify smaller shape. (recognize triangles)	85	2.2	78	3.8	93	1.9
J02	Yes	Shown several drawings with a line through each, which does not show a line of symmetry?	54	3.3	50	4.1	59	4.6
K01	Yes	Shown figure with overlapping shapes, which number is in square and circle, but not in triangle?	66	2.7	58	4.1	72	3.3
K08	Yes	Which of the following rectangles is not divided into 4 equal parts?	57	3.4	53	4.7	61	4.5
L03	Yes	Shown "game board" graph, which object is located at (2,D)?	85	2.6	90	2.6	80	3.8
L05	Yes	Shown diagram of cube with one edge labeled, how many edges does the cube have?	32	3.1	34	4.1	30	4.1
M04	Yes	Given explanation of how grid works, give the coordinates of a particular point.	32	3.5	32	5.1	31	4.2
T05	Yes	Shown picture of folded paper with shape cut out, draw picture of cut-out when unfolded.	48	2.7	44	3.1	51	3.7

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=New Zealand SCALE=Measurement, Estimation, & Number Sense

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
A05	No	Which of these figures has the largest area?	71	1.5	72	1.8	70	1.9
B07	No	Word problem: best estimate of 84 x 57.	27	1.4	28	1.7	26	2.0
C02	No	Find volume of a stack of 5 cubes.	43	1.8	41	2.3	46	2.6
D06	No	How many degrees did temperature rise from minus 3 to 5?	41	2.0	41	2.9	40	2.7
E01	No	Shown calendar, what date is three weeks after December 2?	59	2.1	55	2.8	62	2.6
E03	No	Which of the following numbers would be rounded to 600 when rounded to the nearest hundred?	44	2.3	46	2.5	42	3.2
F08	No	Which units would be best to measure the weight (mass) of an egg?	43	2.2	42	2.3	44	3.2
G02	No	Which of the following could be the weight (mass) of an adult?	61	1.7	59	2.4	63	2.3
H06	No	Shown 6 x 4 rectangle, which of the following expressions gives the perimeter of the rectangle?	32	1.8	36	2.6	27	2.5
J06	Yes	Which of the following weight (mass) measures is the largest?	47	2.8	49	4.2	46	4.6
J08	Yes	Word problem: best estimate of 57 + 62 + 59.	26	2.7	27	3.9	25	3.7
K05	Yes	About how many centimeters is this picture of a pencil?	64	3.3	63	4.5	65	4.3
K07	Yes	A 20 cm wire is formed into a rectangle with width 4cm. What is the length?	25	2.4	24	4.1	26	3.6
L06	Yes	Given 1 clothespin = 9.2 g, which is the best estimate of the weight (mass) of 1000?	39	3.4	38	4.0	39	5.2
L08	Yes	Given number of paces in which each of several children cross the room, who had the longest pace?	15	2.3	18	3.1	13	3.1
M07	Yes	Which of the following would most likely be measured in milliliters?	22	2.5	19	3.7	24	3.1
S05	Yes	Given picture of a paper clip, about how many lengths of the clip is the length of this line?	27	2.1	27	2.9	27	2.7
T03	Yes	Mr. Brown talks a 1 hour and 30 minute walk and returns at 7:00. At what time did he start?	29	2.1	27	2.4	30	3.5
U01	Yes	Given a triangle and large irregular figure, how many triangles will cover the figure?	25	2.0	26	2.9	24	2.9
V05	Yes	How many millimeters are in a meter?	22	1.8	26	2.9	18	2.4

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=New Zealand SCALE=Patterns, Relations and Functions

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
G04	No	Given symbol for number of magazines read in a week, select expression for number read in 6 weeks.	32	1.6	30	2.1	34	2.4
H08	No	Given number pattern, what are the next three numbers?	63	1.8	60	2.4	65	2.6
I07	Yes	Given a 130 page book, and 78 pages read, which expression gives the number of pages remaining?	33	3.0	32	3.7	34	4.3
J05	Yes	Determine common operation between four pairs of numbers.	20	2.6	14	2.8	26	4.2
K03	Yes	Which pair of numbers follows the rule 'multiply by 5'?	31	2.8	29	4.5	33	4.1
K06	Yes	Extend pattern of figures to determine number of tiles in the sixth figure.	40	2.9	38	4.4	42	4.4
L04	Yes	Shown pattern of shapes, which of the following is arranged in the same pattern?	59	3.6	54	4.8	63	4.5
L09	Yes	Given statements about the relative ages of three children, which statement must also be true?	57	3.4	51	4.5	62	4.5
M09	Yes	4 x _ <17: Which number could go in the blank to make the sentence true?	43	3.3	42	3.8	44	5.2
U04	Yes	Explain operation used to find next number in a pattern.	34	1.8	32	2.8	36	2.7

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=New Zealand SCALE=Whole Numbers

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
A03	No	Find number of pencils given pencils/box and number of boxes.	26	1.3	27	1.6	26	1.4
A04	No	Find number of small squares given groupings of hundreds, tens, and ones.	67	1.4	68	1.8	65	1.8
B08	No	Which addition expression has the same value as 342?	65	1.8	66	2.3	64	2.4
C04	No	Which expression shows how long it will take to wash 8 windows at 4 minutes/window?	49	1.9	48	2.7	49	2.6
E02	No	Which digit is in the hundreds place in 2345?	50	2.1	49	2.9	50	2.8
F07	No	What number equals 3 ones + 5 tens + 4 hundreds + 60 thousands?	42	1.9	43	2.8	40	2.2
G03	No	Which of the following is a name for 9740?	76	1.7	72	2.2	79	2.2
H07	No	Determine the relative magnitude of three-digit numbers when digits are rearranged.	52	2.2	52	2.8	53	3.0
H09	No	Which number is equal to eight tens plus nine tens?	57	1.7	59	2.2	54	2.9
I03	Yes	Which of the numbers below, when subtracted from 900, yields an answer greater than 300?	33	2.7	35	4.5	32	3.6
I04	Yes	What is 3 times 23?	68	2.8	71	3.9	65	4.2
I09	Yes	Subtract: 6000-2369.	15	2.3	15	2.9	16	3.6
J04	Yes	25 x 18 is more than 24 x 18. How much more?	18	2.2	19	2.8	18	3.0
J09	Yes	Given chart with consecutive numbers in rows, extend pattern to find the number in square.	57	3.2	54	4.5	60	4.7
K02	Yes	Add: 6971 + 5291	47	3.4	48	4.6	45	5.3
L07	Yes	In which of the following pairs of numbers is the 2nd number 100 more than the 1st?	20	2.3	23	3.5	17	3.3
M03	Yes	Recognize symmetric property of multiplication: 7 x _ is the same as what?	47	3.4	48	5.0	46	4.9
M06	Yes	John wanted to add 1463 + 319, but entered 1263 + 319. How could he fix his mistake?	42	2.8	47	4.4	38	4.6
M08	Yes	Which of the following four-digit numbers is the largest?	65	3.3	67	4.9	62	4.1
S02	Yes	Complete number sentence: 2000+?+30+9=2739.	27	2.2	28	3.0	25	2.7
T02	Yes	Arrange four digits to make the smallest possible whole number.	24	2.2	22	2.5	25	2.9
U05	Yes	Write addition fact as a multiplication fact.	45	2.7	44	3.5	46	3.1
V02	Yes	Write the number that is 1000 more than 56,821.	17	2.0	20	2.4	13	2.8
V03	Yes	What is 5 less than 203?	35	2.2	41	3.1	29	2.7
V04A	Yes	Arrange 4 digits as addition of 2 2-digit numbers. Which sum is greater? How do you know?	6	1.0	5	1.4	7	1.5
V04B	Yes	Arrange 4 digits as addition of 2 2-digit numbers. Find arrangement with sum greater than either of above.	28	2.2	23	2.8	32	3.0

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Norway SCALE=Data Rep., Analysis and Probability

			Third Grade					
			Overall		Boys		Girls	
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
B05	No	Multi-step graph problem: determine Sarah's relative height, then her height from graph.	49	1.5	50	2.4	49	2.2
C01	No	Shown graph (20 unit increments), which class collected 45 bottles?	68	1.9	73	2.3	62	3.0
D05	No	Shown bar graph, which two classes collected exactly 80 bottles?	59	2.1	60	2.6	58	3.5
F05	No	Shown temperature chart, when was the highest temperature recorded?	58	2.1	59	2.5	57	2.8
J03	Yes	Shown pie graph of how Mary spent her day, how much time did she spend on two categories combined?	60	3.6	60	5.0	60	4.9
K04	Yes	Add points from various rounds of a game to determine who won game and by how much.	20	2.3	22	3.7	17	3.3
L01	Yes	Given graph showing numbers of trees, how many trees does each symbol represent?	20	3.1	20	4.1	18	3.7
L02	Yes	Given bags containing different numbers of marbles, determine greatest chance of choosing red marble.	41	4.1	41	5.4	40	4.9
M01	Yes	Given several hexagons with various parts shaded, find greatest chance of stone landing on shaded area.	70	3.3	71	4.3	68	4.9
M02	Yes	Multi-step word problem: add 6 one-digit numbers and subtract from 60.	17	2.4	17	3.4	17	3.6
S01	Yes	Given table of frequencies, complete bar graph for same information.	8	1.3	7	1.8	9	1.8
T01A	Yes	Read simple information from bar graph.	46	2.3	50	3.7	41	2.7
T01B	Yes	Read information from bar graph and add to find a total.	5	1.0	5	1.4	4	1.4

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Norway SCALE=Fractions and Proportionality

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                                                                                          Third Grade

                                                                                Overall      Boys       Girls

ITEM    REL  LABEL                                                                %   (se)    %  (se)    %  (se)
--------------------------------------------------------------------------------------------------------------------
A01     No   In which figure are one-half of the dots black?                     83  1.0    82  1.4    84  1.4
A02     No   Determine total number from ratio and one number.                   38  1.4    42  1.7    35  2.0
B09     No   What is the sum of 2.5 and 3.8?                                      26  1.4    31  2.1    21  2.0
C03     No   Which figure shows 2/3 of the square shaded?                        16  1.7    16  2.3    17  2.3
D08     No   Subtract:  4.03 - 1.15.                                             11  1.3    12  1.9    11  1.6
D09     No   Which of the following diagram has three out of every four squares shaded?  36  1.7    41  2.4    31  3.0
E04     No   Which of the following numbers means 7/10?                          11  1.2    10  1.5    13  1.8
F06     No   Janis ate 1/2 cake, Maija ate 1/4, mother ate 1/4, how much remains?  45  2.2    44  2.8    46  2.9
G01     No   Given map and legend, how far apart are two cities?                 29  1.4    32  2.2    26  2.1
I02     Yes  Which of the following word expressions is the same as .4?          12  2.2    11  2.9    13  3.1
I05     Yes  If five tomatoes make 1/2 liter of sauce, how much sauce do 15 tomatoes make?  33  2.6    35  4.1    33  4.3
I08     Yes  Shown four diagrams with various fractions shaded, which two represent the same fraction?  50  3.4    49  5.0    50  4.2
J07     Yes  Shown a square divided into 9 squares, 5 of which are shaded, what fraction of the figure is shaded?  10  2.5     7  2.7    14  4.1
K09     Yes  54 marbles are equally divided into 6 bags.  How many marbles in 2 bags?   9  1.6    13  2.4     5  2.1
M05     Yes  Given partly shaded figure, which of the following numbers represents the shaded part?  28  3.2    31  4.4    25  4.5
S03     Yes  Solve word problem: 96.4-33.2                                        3  0.8     4  1.3     2  1.0
S04     Yes  Solve word problem: 10/30 = ?/90.                                   10  1.4    10  2.4    11  2.2
T04A    Yes  Does 10 girls and 20 boys mean one girl for every two boys?  Explain.    8  1.4     9  2.2     8  1.6
T04B    Yes  Does 10 girls and 20 boys mean half of all students are girls?  Explain.   6  1.1     5  1.7     7  1.2
U02     Yes  Write a fraction that is larger than 2/7.                           17  2.0    14  2.3    19  2.9
U03A    Yes  Solve word problem using proportions:  3/10 = 9/?                   30  2.1    36  3.1    23  2.6
U03B    Yes  Solve word problem using proportions: 1/3 = 9/?                     17  1.6    18  2.2    17  2.4
U03C    Yes  Solve two proportions and compare results.                          49  2.8    52  3.5    47  3.6
V01     Yes  Is 1/3 less than 1/4?  Shade appropriate parts of a circle to demonstrate.   4  1.1     3  1.2     4  2.0
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REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Norway SCALE=Geometry

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
B06	No	Which of these solids has both a flat surface and a curved surface?	31	1.7	31	2.4	31	2.2
D07	No	Which two figures are congruent?	74	1.6	73	2.3	74	2.3
F09	No	Which of the following must be true of a triangle?	53	2.1	53	2.9	55	3.5
H05	No	Shown diagram of a figure made of blocks, which of the following could be the figure after it is turned?	57	1.8	57	2.5	59	2.7
I01	Yes	Shown map with city blocks, and given directions to school, locate school on map.	41	3.7	48	4.8	37	5.2
I06	Yes	Which of the following figures is made with straight sides only?	60	3.1	60	4.2	58	4.7
J01	Yes	Shown hexagon divided into six triangles, identify smaller shape. (recognize triangles)	71	3.0	71	4.4	70	3.8
J02	Yes	Shown several drawings with a line through each, which does not show a line of symmetry?	18	2.8	18	4.2	18	4.0
K01	Yes	Shown figure with overlapping shapes, which number is in square and circle, but not in triangle?	40	3.1	41	5.0	39	4.1
K08	Yes	Which of the following rectangles is not divided into 4 equal parts?	38	3.0	39	4.6	39	4.6
L03	Yes	Shown "game board" graph, which object is located at (2,D)?	78	2.8	78	3.8	79	4.1
L05	Yes	Shown diagram of cube with one edge labeled, how many edges does the cube have?	10	2.3	10	2.9	11	3.2
M04	Yes	Given explanation of how grid works, give the coordinates of a particular point.	21	2.8	24	3.8	18	4.2
T05	Yes	Shown picture of folded paper with shape cut out, draw picture of cut-out when unfolded.	22	2.2	21	3.2	22	2.9

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Norway SCALE=Measurement, Estimation, & Number Sense

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
A05	No	Which of these figures has the largest area?	67	1.4	67	2.0	67	1.8
B07	No	Word problem: best estimate of 84 x 57.	23	1.4	25	1.9	23	1.7
C02	No	Find volume of a stack of 5 cubes.	36	1.8	36	2.4	36	2.7
D06	No	How many degrees did temperature rise from minus 3 to 5?	49	2.0	53	2.8	44	2.7
E01	No	Shown calendar, what date is three weeks after December 2?	50	2.0	46	2.7	52	2.8
E03	No	Which of the following numbers would be rounded to 600 when rounded to the nearest hundred?	38	2.3	44	3.2	30	2.6
F08	No	Which units would be best to measure the weight (mass) of an egg?	50	2.0	54	2.7	46	2.4
G02	No	Which of the following could be the weight (mass) of an adult?	79	1.6	80	2.1	76	2.2
H06	No	Shown 6 x 4 rectangle, which of the following expressions gives the perimeter of the rectangle?	39	1.9	41	2.8	37	2.7
J06	Yes	Which of the following weight (mass) measures is the largest?	52	3.5	52	4.3	50	5.2
J08	Yes	Word problem: best estimate of 57 + 62 + 59.	31	2.8	34	4.7	29	4.0
K05	Yes	About how many centimeters is this picture of a pencil?	65	3.3	71	4.4	58	4.1
K07	Yes	A 20 cm wire is formed into a rectangle with width 4cm. What is the length?	18	2.7	22	4.1	16	3.4
L06	Yes	Given 1 clothespin = 9.2 g, which is the best estimate of the weight (mass) of 1000?	27	2.9	28	4.3	27	4.2
L08	Yes	Given number of paces in which each of several children cross the room, who had the longest pace?	16	2.4	17	3.2	15	3.0
M07	Yes	Which of the following would most likely be measured in milliliters?	21	2.9	22	4.2	20	3.9
S05	Yes	Given picture of a paper clip, about how many lengths of the clip is the length of this line?	34	2.1	33	3.5	34	2.8
T03	Yes	Mr. Brown talks a 1 hour and 30 minute walk and returns at 7:00. At what time did he start?	29	2.0	33	2.9	25	2.6
U01	Yes	Given a triangle and large irregular figure, how many triangles will cover the figure?	24	2.0	24	2.6	24	2.7
V05	Yes	How many millimeters are in a meter?	17	1.8	21	2.6	13	2.7

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Norway SCALE=Patterns, Relations and Functions

			Third Grade					
			Overall		Boys		Girls	
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
G04	No	Given symbol for number of magazines read in a week, select expression for number read in 6 weeks.	28	1.9	33	2.5	24	2.8
H08	No	Given number pattern, what are the next three numbers?	36	2.1	36	3.0	37	2.9
I07	Yes	Given a 130 page book, and 78 pages read, which expression gives the number of pages remaining?	31	2.9	32	4.7	31	4.0
J05	Yes	Determine common operation between four pairs of numbers.	23	3.5	17	4.3	29	5.4
K03	Yes	Which pair of numbers follows the rule 'multiply by 5'?	24	2.8	29	4.3	19	3.3
K06	Yes	Extend pattern of figures to determine number of tiles in the sixth figure.	39	3.0	45	4.6	32	4.5
L04	Yes	Shown pattern of shapes, which of the following is arranged in the same pattern?	48	3.3	44	4.7	53	4.6
L09	Yes	Given statements about the relative ages of three children, which statement must also be true?	52	3.2	56	4.7	48	4.6
M09	Yes	4 x _ <17: Which number could go in the blank to make the sentence true?	36	3.4	35	4.5	38	5.1
U04	Yes	Explain operation used to find next number in a pattern.	20	2.2	23	3.1	17	2.6

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Norway SCALE=Whole Numbers

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
A03	No	Find number of pencils given pencils/box and number of boxes.	23	1.2	27	1.5	20	1.7
A04	No	Find number of small squares given groupings of hundreds, tens, and ones.	73	1.5	76	1.7	70	2.0
B08	No	Which addition expression has the same value as 342?	76	1.4	80	1.8	73	2.2
C04	No	Which expression shows how long it will take to wash 8 windows at 4 minutes/window?	46	2.2	47	2.6	44	3.0
E02	No	Which digit is in the hundreds place in 2345?	46	2.2	49	2.8	43	3.0
F07	No	What number equals 3 ones + 5 tens + 4 hundreds + 60 thousands?	42	2.1	46	2.4	37	2.9
G03	No	Which of the following is a name for 9740?	79	1.5	81	2.2	76	2.5
H07	No	Determine the relative magnitude of three-digit numbers when digits are rearranged.	65	2.0	66	2.9	64	2.9
H09	No	Which number is equal to eight tens plus nine tens?	55	1.7	57	2.7	52	2.9
I03	Yes	Which of the numbers below, when subtracted from 900, yields an answer greater than 300?	37	3.3	35	4.8	37	4.4
I04	Yes	What is 3 times 23?	58	3.8	64	4.0	53	5.6
I09	Yes	Subtract: 6000-2369.	9	1.9	8	2.6	10	2.6
J04	Yes	25 x 18 is more than 24 x 18. How much more?	24	2.4	27	3.9	19	3.9
J09	Yes	Given chart with consecutive numbers in rows, extend pattern to find the number in square.	49	3.1	44	4.8	54	4.1
K02	Yes	Add: 6971 + 5291	42	3.2	38	3.8	43	5.1
L07	Yes	In which of the following pairs of numbers is the 2nd number 100 more than the 1st?	18	2.7	18	4.1	17	3.5
M03	Yes	Recognize symmetric property of multiplication: 7 x _ is the same as what?	46	3.2	52	4.7	42	4.3
M06	Yes	John wanted to add 1463 + 319, but entered 1263 + 319. How could he fix his mistake?	46	3.4	57	4.4	33	4.8
M08	Yes	Which of the following four-digit numbers is the largest?	56	3.0	60	4.2	53	5.3
S02	Yes	Complete number sentence: 2000+?+30+9=2739.	18	1.7	21	2.6	15	2.2
T02	Yes	Arrange four digits to make the smallest possible whole number.	17	1.9	17	2.5	16	2.5
U05	Yes	Write addition fact as a multiplication fact.	36	2.8	40	3.7	32	3.2
V02	Yes	Write the number that is 1000 more than 56,821.	15	2.0	22	2.8	8	2.3
V03	Yes	What is 5 less than 203?	39	2.4	43	3.2	35	3.5
V04A	Yes	Arrange 4 digits as addition of 2 2-digit numbers. Which sum is greater? How do you know?	2	0.7	2	1.0	2	1.1
V04B	Yes	Arrange 4 digits as addition of 2 2-digit numbers. Find arrangement with sum greater than either of above.	22	2.2	21	2.7	23	3.0

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Portugal SCALE=Data Rep., Analysis and Probability

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
B05	No	Multi-step graph problem: determine Sarah's relative height, then her height from graph.	39	1.6	38	2.1	39	2.0
C01	No	Shown graph (20 unit increments), which class collected 45 bottles?	55	1.8	54	2.4	56	2.6
D05	No	Shown bar graph, which two classes collected exactly 80 bottles?	53	1.9	52	2.4	54	2.7
F05	No	Shown temperature chart, when was the highest temperature recorded?	35	1.9	37	1.9	34	2.6
J03	Yes	Shown pie graph of how Mary spent her day, how much time did she spend on two categories combined?	57	3.3	59	4.1	54	4.8
K04	Yes	Add points from various rounds of a game to determine who won game and by how much.	18	2.4	21	3.6	16	3.2
L01	Yes	Given graph showing numbers of trees, how many trees does each symbol represent?	21	3.0	20	3.1	23	4.4
L02	Yes	Given bags containing different numbers of marbles, determine greatest chance of choosing red marble.	26	2.5	24	3.6	29	3.8
M01	Yes	Given several hexagons with various parts shaded, find greatest chance of stone landing on shaded area.	41	3.0	45	4.5	37	4.2
M02	Yes	Multi-step word problem: add 6 one-digit numbers and subtract from 60.	30	2.5	33	3.6	27	3.0
S01	Yes	Given table of frequencies, complete bar graph for same information.	5	1.0	6	1.3	5	1.4
T01A	Yes	Read simple information from bar graph.	35	2.5	38	2.7	31	3.8
T01B	Yes	Read information from bar graph and add to find a total.	11	1.6	12	2.1	10	2.0

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Portugal SCALE=Fractions and Proportionality

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
A01	No	In which figure are one-half of the dots black?	71	1.4	73	1.5	69	1.9
A02	No	Determine total number from ratio and one number.	24	1.1	25	1.4	23	1.3
B09	No	What is the sum of 2.5 and 3.8?	62	1.8	61	2.0	63	2.4
C03	No	Which figure shows 2/3 of the square shaded?	18	1.6	16	2.0	19	2.3
D08	No	Subtract: 4.03 - 1.15.	48	2.1	47	2.5	49	2.8
D09	No	Which of the following diagram has three out of every four squares shaded?	31	1.8	34	2.5	29	2.4
E04	No	Which of the following numbers means 7/10?	27	2.0	30	2.6	24	2.6
F06	No	Janis ate 1/2 cake, Maija ate 1/4, mother ate 1/4, how much remains?	45	2.1	44	2.8	45	2.6
G01	No	Given map and legend, how far apart are two cities?	21	1.8	22	2.2	19	2.6
I02	Yes	Which of the following word expressions is the same as .4?	79	2.3	77	3.2	80	3.6
I05	Yes	If five tomatoes make 1/2 liter of sauce, how much sauce do 15 tomatoes make?	37	2.7	40	3.5	34	4.2
I08	Yes	Shown four diagrams with various fractions shaded, which two represent the same fraction?	35	2.6	36	3.9	34	3.6
J07	Yes	Shown a square divided into 9 squares, 5 of which are shaded, what fraction of the figure is shaded?	15	2.5	13	3.4	17	3.3
K09	Yes	54 marbles are equally divided into 6 bags. How many marbles in 2 bags?	16	2.2	14	2.7	17	3.5
M05	Yes	Given partly shaded figure, which of the following numbers represents the shaded part?	57	3.1	56	4.0	58	4.3
S03	Yes	Solve word problem: 96.4-33.2	8	1.3	8	1.4	8	1.9
S04	Yes	Solve word problem: 10/30 = ?/90.	15	1.4	18	2.3	11	2.0
T04A	Yes	Does 10 girls and 20 boys mean one girl for every two boys? Explain.	4	0.8	3	0.9	4	1.4
T04B	Yes	Does 10 girls and 20 boys mean half of all students are girls? Explain.	1	0.4	0	0.3	2	0.8
U02	Yes	Write a fraction that is larger than 2/7.	18	1.6	19	2.3	16	2.1
U03A	Yes	Solve word problem using proportions: 3/10 = 9/?	31	2.4	33	3.0	28	3.1
U03B	Yes	Solve word problem using proportions: 1/3 = 9/?	12	1.6	15	2.3	10	1.8
U03C	Yes	Solve two proportions and compare results.	47	2.3	48	2.8	47	3.1
V01	Yes	Is 1/3 less than 1/4? Shade appropriate parts of a circle to demonstrate.	4	0.9	4	1.2	3	1.1

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Portugal SCALE=Geometry

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                                                                                  Third Grade

                                                                          Overall      Boys        Girls

ITEM    REL   LABEL                                                        %   (se)    %   (se)    %   (se)
---------------------------------------------------------------------------------------------------------------
B06     No    Which of these solids has both a flat surface and a curved surface?       57  1.7   59  2.0   55  2.5
D07     No    Which two figures are congruent?                                          62  2.0   65  2.3   60  3.1
F09     No    Which of the following must be true of a triangle?                        66  1.7   63  2.5   69  2.3
H05     No    Shown diagram of a figure made of blocks, which of the following could be the figure after it is turned?   28  1.5   29  2.4   27  2.3
I01     Yes   Shown map with city blocks, and given directions to school, locate school on map.   25  2.9   26  3.9   24  3.7
I06     Yes   Which of the following figures is made with straight sides only?          39  2.8   40  4.0   37  4.8
J01     Yes   Shown hexagon divided into six triangles, identify smaller shape. (recognize triangles)   67  2.9   67  4.1   67  3.7
J02     Yes   Shown several drawings with a line through each, which does not show a line of symmetry?   32  2.7   33  3.6   31  3.9
K01     Yes   Shown figure with overlapping shapes, which number is in square and circle, but not in triangle?   49  3.2   49  4.0   49  5.0
K08     Yes   Which of the following rectangles is not divided into 4 equal parts?      37  2.6   33  3.2   41  4.2
L03     Yes   Shown "game board" graph, which object is located at (2,D)?               66  2.8   63  4.7   69  3.9
L05     Yes   Shown diagram of cube with one edge labeled, how many edges does the cube have?   35  3.0   35  4.1   36  4.2
M04     Yes   Given explanation of how grid works, give the coordinates of a particular point.   10  2.1   12  3.0    9  2.6
T05     Yes   Shown picture of folded paper with shape cut out, draw picture of cut-out when unfolded.   16  1.6   16  2.3   15  2.5
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REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Portugal SCALE=Measurement, Estimation, & Number Sense

			Third Grade					
			Overall		Boys		Girls	
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
A05	No	Which of these figures has the largest area?	78	1.3	79	1.4	76	1.8
B07	No	Word problem: best estimate of 84 x 57.	25	1.6	25	2.0	25	1.9
C02	No	Find volume of a stack of 5 cubes.	47	1.8	51	2.2	44	2.6
D06	No	How many degrees did temperature rise from minus 3 to 5?	38	2.1	41	2.9	36	2.1
E01	No	Shown calendar, what date is three weeks after December 2?	38	1.8	38	2.4	37	2.5
E03	No	Which of the following numbers would be rounded to 600 when rounded to the nearest hundred?	50	1.9	52	2.8	47	2.8
F08	No	Which units would be best to measure the weight (mass) of an egg?	49	2.0	53	2.8	45	3.1
G02	No	Which of the following could be the weight (mass) of an adult?	57	2.0	58	2.2	55	3.0
H06	No	Shown 6 x 4 rectangle, which of the following expressions gives the perimeter of the rectangle?	50	2.3	53	3.2	47	2.5
J06	Yes	Which of the following weight (mass) measures is the largest?	48	3.5	52	4.7	43	4.6
J08	Yes	Word problem: best estimate of 57 + 62 + 59.	24	2.4	26	3.1	22	3.5
K05	Yes	About how many centimeters is this picture of a pencil?	50	3.7	51	4.4	48	5.0
K07	Yes	A 20 cm wire is formed into a rectangle with width 4cm. What is the length?	19	2.3	21	2.7	18	3.6
L06	Yes	Given 1 clothespin = 9.2 g, which is the best estimate of the weight (mass) of 1000?	34	3.4	38	4.9	31	3.7
L08	Yes	Given number of paces in which each of several children cross the room, who had the longest pace?	17	2.0	25	3.3	10	2.0
M07	Yes	Which of the following would most likely be measured in milliliters?	31	2.3	31	3.6	32	3.9
S05	Yes	Given picture of a paper clip, about how many lengths of the clip is the length of this line?	18	2.2	19	2.5	17	2.8
T03	Yes	Mr. Brown talks a 1 hour and 30 minute walk and returns at 7:00. At what time did he start?	9	1.2	11	1.7	6	1.6
U01	Yes	Given a triangle and large irregular figure, how many triangles will cover the figure?	29	2.4	28	2.7	29	3.4
V05	Yes	How many millimeters are in a meter?	31	2.3	33	2.7	29	3.0

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Portugal SCALE=Patterns, Relations and Functions

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
G04	No	Given symbol for number of magazines read in a week, select expression for number read in 6 weeks.	35	1.9	36	2.3	33	2.7
H08	No	Given number pattern, what are the next three numbers?	37	2.1	38	2.5	37	2.7
I07	Yes	Given a 130 page book, and 78 pages read, which expression gives the number of pages remaining?	40	2.8	43	3.8	37	4.4
J05	Yes	Determine common operation between four pairs of numbers.	23	2.8	17	3.4	30	4.1
K03	Yes	Which pair of numbers follows the rule 'multiply by 5'?	37	3.4	34	4.2	39	4.7
K06	Yes	Extend pattern of figures to determine number of tiles in the sixth figure.	42	3.0	49	3.7	35	4.2
L04	Yes	Shown pattern of shapes, which of the following is arranged in the same pattern?	42	2.8	37	4.1	46	3.6
L09	Yes	Given statements about the relative ages of three children, which statement must also be true?	46	3.0	49	3.8	42	3.8
M09	Yes	4 x _ <17: Which number could go in the blank to make the sentence true?	46	3.4	48	4.9	44	4.2
U04	Yes	Explain operation used to find next number in a pattern.	17	2.1	19	2.7	15	2.7

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Portugal SCALE=Whole Numbers

Third Grade

			Overall		Boys		Girls	
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
A03	No	Find number of pencils given pencils/box and number of boxes.	57	1.6	56	2.0	59	1.8
A04	No	Find number of small squares given groupings of hundreds, tens, and ones.	57	2.0	59	2.0	56	2.5
B08	No	Which addition expression has the same value as 342?	73	1.5	75	1.9	71	2.2
C04	No	Which expression shows how long it will take to wash 8 windows at 4 minutes/window?	56	1.9	54	2.4	58	2.5
E02	No	Which digit is in the hundreds place in 2345?	59	1.9	60	2.5	58	3.1
F07	No	What number equals 3 ones + 5 tens + 4 hundreds + 60 thousands?	40	2.1	43	2.6	37	2.6
G03	No	Which of the following is a name for 9740?	79	1.8	80	2.4	77	2.5
H07	No	Determine the relative magnitude of three-digit numbers when digits are rearranged.	51	1.9	52	2.5	49	2.6
H09	No	Which number is equal to eight tens plus nine tens?	43	2.3	48	2.9	38	2.6
I03	Yes	Which of the numbers below, when subtracted from 900, yields an answer greater than 300?	37	3.1	39	3.4	35	5.2
I04	Yes	What is 3 times 23?	76	3.0	73	4.0	81	3.9
I09	Yes	Subtract: 6000-2369.	60	3.5	58	4.4	63	4.7
J04	Yes	25 x 18 is more than 24 x 18. How much more?	20	2.6	17	3.2	23	3.4
J09	Yes	Given chart with consecutive numbers in rows, extend pattern to find the number in square.	47	3.4	49	4.7	45	4.7
K02	Yes	Add: 6971 + 5291	77	2.7	80	3.1	73	4.7
L07	Yes	In which of the following pairs of numbers is the 2nd number 100 more than the 1st?	22	2.5	25	3.4	20	3.6
M03	Yes	Recognize symmetric property of multiplication: 7 x _ is the same as what?	40	3.9	42	5.4	39	4.9
M06	Yes	John wanted to add 1463 + 319, but entered 1263 + 319. How could he fix his mistake?	36	3.2	38	4.5	33	4.4
M08	Yes	Which of the following four-digit numbers is the largest?	63	2.8	65	4.0	60	3.9
S02	Yes	Complete number sentence: 2000+?+30+9=2739.	45	2.2	47	2.3	43	3.6
T02	Yes	Arrange four digits to make the smallest possible whole number.	16	1.7	15	2.2	17	2.5
U05	Yes	Write addition fact as a multiplication fact.	52	2.8	53	3.2	51	3.7
V02	Yes	Write the number that is 1000 more than 56,821.	21	1.8	25	2.2	16	2.5
V03	Yes	What is 5 less than 203?	23	1.9	28	2.4	18	2.9
V04A	Yes	Arrange 4 digits as addition of 2 2-digit numbers. Which sum is greater? How do you know?	19	1.7	21	2.7	16	1.8
V04B	Yes	Arrange 4 digits as addition of 2 2-digit numbers. Find arrangement with sum greater than either of above.	17	1.6	20	2.7	13	1.8

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Singapore SCALE=Data Rep., Analysis and Probability

			Third Grade					
			Overall		Boys		Girls	
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
B05	No	Multi-step graph problem: determine Sarah's relative height, then her height from graph.	70	1.4	66	1.7	73	1.5
C01	No	Shown graph (20 unit increments), which class collected 45 bottles?	94	0.5	93	0.7	95	0.7
D05	No	Shown bar graph, which two classes collected exactly 80 bottles?	91	0.7	91	0.9	92	0.9
F05	No	Shown temperature chart, when was the highest temperature recorded?	64	1.3	63	1.7	65	1.8
J03	Yes	Shown pie graph of how Mary spent her day, how much time did she spend on two categories combined?	78	1.8	76	2.7	80	2.5
K04	Yes	Add points from various rounds of a game to determine who won game and by how much.	50	2.2	48	2.8	53	3.0
L01	Yes	Given graph showing numbers of trees, how many trees does each symbol represent?	63	2.1	62	2.8	64	2.8
L02	Yes	Given bags containing different numbers of marbles, determine greatest chance of choosing red marble.	46	2.2	47	2.7	45	2.9
M01	Yes	Given several hexagons with various parts shaded, find greatest chance of stone landing on shaded area.	60	2.2	60	2.6	60	3.0
M02	Yes	Multi-step word problem: add 6 one-digit numbers and subtract from 60.	58	2.1	57	2.8	59	2.7
S01	Yes	Given table of frequencies, complete bar graph for same information.	48	2.1	46	2.4	50	2.5
T01A	Yes	Read simple information from bar graph.	91	0.8	91	1.0	91	1.3
T01B	Yes	Read information from bar graph and add to find a total.	65	1.6	63	2.0	66	2.1

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Singapore SCALE=Fractions and Proportionality

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
A01	No	In which figure are one-half of the dots black?	79	1.0	80	1.1	77	1.3
A02	No	Determine total number from ratio and one number.	58	1.5	58	1.7	59	1.7
B09	No	What is the sum of 2.5 and 3.8?	81	0.8	79	1.2	83	0.9
C03	No	Which figure shows 2/3 of the square shaded?	84	1.0	82	1.3	86	1.2
D08	No	Subtract: 4.03 - 1.15.	81	0.9	79	1.3	84	1.2
D09	No	Which of the following diagram has three out of every four squares shaded?	54	1.6	55	2.2	52	1.9
E04	No	Which of the following numbers means 7/10?	29	0.9	32	1.3	26	1.3
F06	No	Janis ate 1/2 cake, Maija ate 1/4, mother ate 1/4, how much remains?	68	1.4	66	1.7	69	1.6
G01	No	Given map and legend, how far apart are two cities?	38	1.5	42	1.8	33	1.9
I02	Yes	Which of the following word expressions is the same as .4?	8	0.9	10	1.4	7	1.3
I05	Yes	If five tomatoes make 1/2 liter of sauce, how much sauce do 15 tomatoes make?	51	2.1	56	3.0	46	2.5
I08	Yes	Shown four diagrams with various fractions shaded, which two represent the same fraction?	58	2.3	59	2.8	56	3.0
J07	Yes	Shown a square divided into 9 squares, 5 of which are shaded, what fraction of the figure is shaded?	92	1.0	90	1.4	94	1.4
K09	Yes	54 marbles are equally divided into 6 bags. How many marbles in 2 bags?	57	2.2	57	2.8	56	3.1
M05	Yes	Given partly shaded figure, which of the following numbers represents the shaded part?	23	1.4	25	1.9	21	2.1
S03	Yes	Solve word problem: 96.4-33.2	46	1.7	44	2.4	48	2.4
S04	Yes	Solve word problem: 10/30 = ?/90.	43	2.1	46	2.8	40	2.3
T04A	Yes	Does 10 girls and 20 boys mean one girl for every two boys? Explain.	26	1.9	26	2.4	26	2.2
T04B	Yes	Does 10 girls and 20 boys mean half of all students are girls? Explain.	22	1.8	21	2.3	24	2.0
U02	Yes	Write a fraction that is larger than 2/7.	62	1.3	61	1.5	63	1.9
U03A	Yes	Solve word problem using proportions: 3/10 = 9/?	57	1.7	61	2.1	53	2.2
U03B	Yes	Solve word problem using proportions: 1/3 = 9/?	48	1.9	49	2.1	46	2.6
U03C	Yes	Solve two proportions and compare results.	78	1.4	75	1.9	81	1.9
V01	Yes	Is 1/3 less than 1/4? Shade appropriate parts of a circle to demonstrate.	48	2.1	46	2.2	50	2.6

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Singapore SCALE=Geometry

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
B06	No	Which of these solids has both a flat surface and a curved surface?	56	1.7	53	2.1	59	1.9
D07	No	Which two figures are congruent?	85	0.8	85	1.1	86	1.1
F09	No	Which of the following must be true of a triangle?	76	1.1	73	1.4	79	1.6
H05	No	Shown diagram of a figure made of blocks, which of the following could be the figure after it is turned?	43	1.1	43	1.5	43	1.3
I01	Yes	Shown map with city blocks, and given directions to school, locate school on map.	28	1.6	33	2.2	24	2.3
I06	Yes	Which of the following figures is made with straight sides only?	72	2.0	68	2.8	77	2.2
J01	Yes	Shown hexagon divided into six triangles, identify smaller shape. (recognize triangles)	85	1.6	84	2.2	86	1.9
J02	Yes	Shown several drawings with a line through each, which does not show a line of symmetry?	55	1.8	56	2.3	55	3.0
K01	Yes	Shown figure with overlapping shapes, which number is in square and circle, but not in triangle?	53	2.1	51	2.8	57	2.6
K08	Yes	Which of the following rectangles is not divided into 4 equal parts?	83	1.5	80	1.9	86	2.2
L03	Yes	Shown "game board" graph, which object is located at (2,D)?	84	1.3	84	2.0	84	1.9
L05	Yes	Shown diagram of cube with one edge labeled, how many edges does the cube have?	33	1.9	31	2.8	34	2.5
M04	Yes	Given explanation of how grid works, give the coordinates of a particular point.	37	1.9	38	2.6	34	2.4
T05	Yes	Shown picture of folded paper with shape cut out, draw picture of cut-out when unfolded.	54	1.8	53	2.2	55	2.6

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Singapore SCALE=Measurement, Estimation, & Number Sense

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
A05	No	Which of these figures has the largest area?	84	0.6	83	0.8	84	0.9
B07	No	Word problem: best estimate of 84 x 57.	39	1.0	39	1.2	38	1.6
C02	No	Find volume of a stack of 5 cubes.	72	1.3	71	1.7	73	1.5
D06	No	How many degrees did temperature rise from minus 3 to 5?	38	1.3	40	1.5	36	1.6
E01	No	Shown calendar, what date is three weeks after December 2?	64	1.7	66	1.8	63	2.2
E03	No	Which of the following numbers would be rounded to 600 when rounded to the nearest hundred?	59	1.3	60	1.6	58	1.5
F08	No	Which units would be best to measure the weight (mass) of an egg?	68	1.6	65	2.0	70	1.7
G02	No	Which of the following could be the weight (mass) of an adult?	69	1.3	67	1.8	71	1.7
H06	No	Shown 6 x 4 rectangle, which of the following expressions gives the perimeter of the rectangle?	53	1.5	54	1.7	53	2.0
J06	Yes	Which of the following weight (mass) measures is the largest?	64	2.3	66	2.7	62	3.4
J08	Yes	Word problem: best estimate of 57 + 62 + 59.	39	1.9	40	2.4	39	2.5
K05	Yes	About how many centimeters is this picture of a pencil?	88	1.1	86	1.5	89	1.5
K07	Yes	A 20 cm wire is formed into a rectangle with width 4cm. What is the length?	19	1.4	18	2.0	19	2.0
L06	Yes	Given 1 clothespin = 9.2 g, which is the best estimate of the weight (mass) of 1000?	55	2.0	56	2.4	54	2.6
L08	Yes	Given number of paces in which each of several children cross the room, who had the longest pace?	18	1.6	19	2.6	17	1.9
M07	Yes	Which of the following would most likely be measured in milliliters?	39	2.3	41	2.8	37	2.9
S05	Yes	Given picture of a paper clip, about how many lengths of the clip is the length of this line?	33	1.7	37	2.2	30	2.2
T03	Yes	Mr. Brown talks a 1 hour and 30 minute walk and returns at 7:00. At what time did he start?	42	1.9	43	2.0	39	2.4
U01	Yes	Given a triangle and large irregular figure, how many triangles will cover the figure?	47	1.9	47	2.3	48	2.4
V05	Yes	How many millimeters are in a meter?	37	1.6	37	2.1	37	1.8

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Singapore SCALE=Patterns, Relations and Functions

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
G04	No	Given symbol for number of magazines read in a week, select expression for number read in 6 weeks.	66	1.4	67	1.8	64	1.8
H08	No	Given number pattern, what are the next three numbers?	84	1.0	83	1.1	85	1.3
I07	Yes	Given a 130 page book, and 78 pages read, which expression gives the number of pages remaining?	58	1.9	56	2.6	60	2.6
J05	Yes	Determine common operation between four pairs of numbers.	45	2.1	45	2.8	45	3.3
K03	Yes	Which pair of numbers follows the rule 'multiply by 5'?	51	2.1	52	2.5	50	3.4
K06	Yes	Extend pattern of figures to determine number of tiles in the sixth figure.	66	1.7	66	2.4	67	2.2
L04	Yes	Shown pattern of shapes, which of the following is arranged in the same pattern?	74	1.8	72	2.4	75	2.5
L09	Yes	Given statements about the relative ages of three children, which statement must also be true?	62	2.0	65	2.4	58	2.7
M09	Yes	4 x _ <17: Which number could go in the blank to make the sentence true?	73	1.8	73	2.2	73	2.5
U04	Yes	Explain operation used to find next number in a pattern.	73	1.4	72	1.9	73	1.7

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Singapore SCALE=Whole Numbers

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
A03	No	Find number of pencils given pencils/box and number of boxes.	81	0.8	79	1.0	83	0.9
A04	No	Find number of small squares given groupings of hundreds, tens, and ones.	85	0.8	86	0.8	84	1.0
B08	No	Which addition expression has the same value as 342?	92	0.6	91	0.7	92	0.7
C04	No	Which expression shows how long it will take to wash 8 windows at 4 minutes/window?	85	1.1	84	1.5	85	1.3
E02	No	Which digit is in the hundreds place in 2345?	93	0.6	92	0.8	93	0.7
F07	No	What number equals 3 ones + 5 tens + 4 hundreds + 60 thousands?	74	1.3	75	1.4	73	1.7
G03	No	Which of the following is a name for 9740?	95	0.4	95	0.6	96	0.6
H07	No	Determine the relative magnitude of three-digit numbers when digits are rearranged.	80	1.0	79	1.3	82	1.4
H09	No	Which number is equal to eight tens plus nine tens?	79	1.2	79	1.5	79	1.5
I03	Yes	Which of the numbers below, when subtracted from 900, yields an answer greater than 300?	49	2.1	46	2.7	52	3.2
I04	Yes	What is 3 times 23?	89	1.1	86	1.7	92	1.5
I09	Yes	Subtract: 6000-2369.	90	1.0	88	1.8	93	1.0
J04	Yes	25 x 18 is more than 24 x 18. How much more?	53	2.4	56	3.1	50	3.0
J09	Yes	Given chart with consecutive numbers in rows, extend pattern to find the number in square.	80	1.5	79	2.2	80	2.3
K02	Yes	Add: 6971 + 5291	91	1.0	90	1.2	92	1.6
L07	Yes	In which of the following pairs of numbers is the 2nd number 100 more than the 1st?	43	2.0	41	2.6	44	2.8
M03	Yes	Recognize symmetric property of multiplication: 7 x _ is the same as what?	68	1.9	66	2.6	71	2.4
M06	Yes	John wanted to add 1463 + 319, but entered 1263 + 319. How could he fix his mistake?	72	2.0	71	2.7	73	2.6
M08	Yes	Which of the following four-digit numbers is the largest?	85	1.3	83	1.7	86	1.8
S02	Yes	Complete number sentence: 2000+?+30+9=2739.	86	1.1	85	1.6	88	1.5
T02	Yes	Arrange four digits to make the smallest possible whole number.	65	1.9	64	2.3	65	2.3
U05	Yes	Write addition fact as a multiplication fact.	87	1.1	86	1.5	88	1.4
V02	Yes	Write the number that is 1000 more than 56,821.	66	1.6	66	1.7	67	2.1
V03	Yes	What is 5 less than 203?	75	1.4	72	1.7	77	2.1
V04A	Yes	Arrange 4 digits as addition of 2 2-digit numbers. Which sum is greater? How do you know?	26	1.2	25	1.6	27	1.8
V04B	Yes	Arrange 4 digits as addition of 2 2-digit numbers. Find arrangement with sum greater than either of above.	52	1.9	51	2.2	53	2.4

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Thailand SCALE=Data Rep., Analysis and Probability

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
B05	No	Multi-step graph problem: determine Sarah's relative height, then her height from graph.	33	2.0	26	2.4	39	2.6
C01	No	Shown graph (20 unit increments), which class collected 45 bottles?	74	2.1	76	2.3	72	2.7
D05	No	Shown bar graph, which two classes collected exactly 80 bottles?	76	2.1	73	2.7	79	2.6
F05	No	Shown temperature chart, when was the highest temperature recorded?	46	2.1	45	2.7	46	3.1
J03	Yes	Shown pie graph of how Mary spent her day, how much time did she spend on two categories combined?	56	3.5	53	4.6	60	4.2
K04	Yes	Add points from various rounds of a game to determine who won game and by how much.	24	3.5	19	3.0	29	5.6
L01	Yes	Given graph showing numbers of trees, how many trees does each symbol represent?	27	3.5	21	3.6	32	4.6
L02	Yes	Given bags containing different numbers of marbles, determine greatest chance of choosing red marble.	30	3.3	35	4.7	25	3.9
M01	Yes	Given several hexagons with various parts shaded, find greatest chance of stone landing on shaded area.	69	3.3	68	5.2	69	4.7
M02	Yes	Multi-step word problem: add 6 one-digit numbers and subtract from 60.	30	4.4	23	4.6	36	6.1
S01	Yes	Given table of frequencies, complete bar graph for same information.	20	3.1	19	3.2	22	3.8
T01A	Yes	Read simple information from bar graph.	55	3.2	57	3.5	53	4.1
T01B	Yes	Read information from bar graph and add to find a total.	8	1.7	7	1.6	9	2.8

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Thailand SCALE=Fractions and Proportionality

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
A01	No	In which figure are one-half of the dots black?	66	2.0	66	2.1	66	2.4
A02	No	Determine total number from ratio and one number.	30	1.6	31	2.1	30	1.6
B09	No	What is the sum of 2.5 and 3.8?	60	2.3	60	2.7	60	2.7
C03	No	Which figure shows 2/3 of the square shaded?	51	2.1	48	2.5	54	3.1
D08	No	Subtract: 4.03 - 1.15.	57	2.4	56	2.7	58	3.7
D09	No	Which of the following diagram has three out of every four squares shaded?	43	1.9	43	2.8	43	2.6
E04	No	Which of the following numbers means 7/10?	13	1.6	15	2.1	12	2.1
F06	No	Janis ate 1/2 cake, Maija ate 1/4, mother ate 1/4, how much remains?	47	1.8	42	3.0	52	2.9
G01	No	Given map and legend, how far apart are two cities?	22	2.1	24	2.7	19	2.9
I02	Yes	Which of the following word expressions is the same as .4?	13	2.2	17	4.2	11	2.7
I05	Yes	If five tomatoes make 1/2 liter of sauce, how much sauce do 15 tomatoes make?	46	3.5	42	4.3	50	4.7
I08	Yes	Shown four diagrams with various fractions shaded, which two represent the same fraction?	34	3.5	40	5.8	30	4.1
J07	Yes	Shown a square divided into 9 squares, 5 of which are shaded, what fraction of the figure is shaded?	51	3.7	52	4.6	50	4.5
K09	Yes	54 marbles are equally divided into 6 bags. How many marbles in 2 bags?	25	3.1	22	4.1	26	5.2
M05	Yes	Given partly shaded figure, which of the following numbers represents the shaded part?	16	2.3	15	3.2	17	3.3
S03	Yes	Solve word problem: 96.4-33.2	23	3.7	18	3.0	28	4.8
S04	Yes	Solve word problem: 10/30 = ?/90.	17	1.8	17	2.3	18	3.5
T04A	Yes	Does 10 girls and 20 boys mean one girl for every two boys? Explain.	0	0.2	0	0.2	0	0.3
T04B	Yes	Does 10 girls and 20 boys mean half of all students are girls? Explain.	0	0.2	1	0.4	.	.
U02	Yes	Write a fraction that is larger than 2/7.	55	3.8	52	3.9	58	4.7
U03A	Yes	Solve word problem using proportions: 3/10 = 9/?	33	3.0	30	3.5	36	3.8
U03B	Yes	Solve word problem using proportions: 1/3 = 9/?	20	2.9	17	2.7	22	4.1
U03C	Yes	Solve two proportions and compare results.	52	3.1	47	3.8	57	4.5
V01	Yes	Is 1/3 less than 1/4? Shade appropriate parts of a circle to demonstrate.	8	2.4	8	2.5	8	2.8

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Thailand SCALE=Geometry

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
B06	No	Which of these solids has both a flat surface and a curved surface?	46	1.9	45	2.8	47	2.0
D07	No	Which two figures are congruent?	73	2.5	71	3.2	75	2.8
F09	No	Which of the following must be true of a triangle?	58	1.8	58	2.8	57	3.2
H05	No	Shown diagram of a figure made of blocks, which of the following could be the figure after it is turned?	19	1.7	19	2.0	18	2.2
I01	Yes	Shown map with city blocks, and given directions to school, locate school on map.	20	3.3	21	3.8	18	5.4
I06	Yes	Which of the following figures is made with straight sides only?	58	4.1	59	5.1	57	6.1
J01	Yes	Shown hexagon divided into six triangles, identify smaller shape. (recognize triangles)	58	2.9	62	3.7	53	4.7
J02	Yes	Shown several drawings with a line through each, which does not show a line of symmetry?	58	3.6	54	4.9	62	5.2
K01	Yes	Shown figure with overlapping shapes, which number is in square and circle, but not in triangle?	46	3.9	41	4.2	51	6.5
K08	Yes	Which of the following rectangles is not divided into 4 equal parts?	54	3.5	53	4.8	55	4.3
L03	Yes	Shown "game board" graph, which object is located at (2,D)?	69	3.1	71	4.0	68	4.4
L05	Yes	Shown diagram of cube with one edge labeled, how many edges does the cube have?	14	3.2	13	3.7	15	3.7
M04	Yes	Given explanation of how grid works, give the coordinates of a particular point.	15	3.3	18	4.6	12	4.4
T05	Yes	Shown picture of folded paper with shape cut out, draw picture of cut-out when unfolded.	31	3.6	28	3.6	35	4.4

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Thailand SCALE=Measurement, Estimation, & Number Sense

			Third Grade					
			Overall		Boys		Girls	
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
A05	No	Which of these figures has the largest area?	86	0.8	86	1.1	86	1.2
B07	No	Word problem: best estimate of 84 x 57.	34	1.2	33	1.5	34	1.9
C02	No	Find volume of a stack of 5 cubes.	48	2.8	45	3.3	52	3.2
D06	No	How many degrees did temperature rise from minus 3 to 5?	27	1.9	28	2.8	26	2.1
E01	No	Shown calendar, what date is three weeks after December 2?	41	2.6	37	2.6	44	3.2
E03	No	Which of the following numbers would be rounded to 600 when rounded to the nearest hundred?	35	2.7	35	2.6	35	3.9
F08	No	Which units would be best to measure the weight (mass) of an egg?	38	2.1	39	2.6	37	2.6
G02	No	Which of the following could be the weight (mass) of an adult?	69	1.8	67	2.6	71	2.3
H06	No	Shown 6 x 4 rectangle, which of the following expressions gives the perimeter of the rectangle?	25	2.2	25	2.3	25	2.8
J06	Yes	Which of the following weight (mass) measures is the largest?	65	2.7	67	3.2	62	4.6
J08	Yes	Word problem: best estimate of 57 + 62 + 59.	23	2.5	22	3.3	24	3.8
K05	Yes	About how many centimeters is this picture of a pencil?	72	3.3	68	4.8	75	4.8
K07	Yes	A 20 cm wire is formed into a rectangle with width 4cm. What is the length?	12	2.1	15	2.9	10	2.5
L06	Yes	Given 1 clothespin = 9.2 g, which is the best estimate of the weight (mass) of 1000?	45	3.3	47	4.7	44	4.4
L08	Yes	Given number of paces in which each of several children cross the room, who had the longest pace?	8	1.5	9	2.6	7	1.6
M07	Yes	Which of the following would most likely be measured in milliliters?	12	2.1	9	2.7	15	3.4
S05	Yes	Given picture of a paper clip, about how many lengths of the clip is the length of this line?	27	2.7	27	2.7	28	3.8
T03	Yes	Mr. Brown talks a 1 hour and 30 minute walk and returns at 7:00. At what time did he start?	8	1.9	6	1.3	9	3.3
U01	Yes	Given a triangle and large irregular figure, how many triangles will cover the figure?	16	2.5	15	2.2	18	3.5
V05	Yes	How many millimeters are in a meter?	23	3.5	23	3.7	22	4.4

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Thailand SCALE=Patterns, Relations and Functions

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
G04	No	Given symbol for number of magazines read in a week, select expression for number read in 6 weeks.	35	2.1	36	2.9	33	2.6
H08	No	Given number pattern, what are the next three numbers?	43	2.2	41	3.0	45	3.9
I07	Yes	Given a 130 page book, and 78 pages read, which expression gives the number of pages remaining?	49	3.8	43	5.5	53	5.1
J05	Yes	Determine common operation between four pairs of numbers.	26	1.9	26	3.7	25	3.4
K03	Yes	Which pair of numbers follows the rule 'multiply by 5'?	34	3.5	31	3.9	36	6.7
K06	Yes	Extend pattern of figures to determine number of tiles in the sixth figure.	52	3.7	46	4.3	58	5.3
L04	Yes	Shown pattern of shapes, which of the following is arranged in the same pattern?	43	3.6	41	4.4	45	4.5
L09	Yes	Given statements about the relative ages of three children, which statement must also be true?	37	2.7	34	4.0	40	4.8
M09	Yes	4 x _ <17: Which number could go in the blank to make the sentence true?	52	3.9	57	5.4	48	4.7

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Thailand SCALE=Whole Numbers

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
A03	No	Find number of pencils given pencils/box and number of boxes.	63	2.2	60	2.4	67	2.5
A04	No	Find number of small squares given groupings of hundreds, tens, and ones.	78	1.3	77	1.7	78	1.6
B08	No	Which addition expression has the same value as 342?	80	1.8	79	1.9	80	2.5
C04	No	Which expression shows how long it will take to wash 8 windows at 4 minutes/window?	56	2.6	53	3.0	59	3.2
E02	No	Which digit is in the hundreds place in 2345?	71	2.0	69	2.6	72	2.9
F07	No	What number equals 3 ones + 5 tens + 4 hundreds + 60 thousands?	39	1.8	39	2.6	39	2.3
G03	No	Which of the following is a name for 9740?	89	1.5	89	2.0	90	1.9
H07	No	Determine the relative magnitude of three-digit numbers when digits are rearranged.	54	2.3	57	3.1	51	2.9
H09	No	Which number is equal to eight tens plus nine tens?	73	2.2	72	2.9	73	2.5
I03	Yes	Which of the numbers below, when subtracted from 900, yields an answer greater than 300?	42	4.4	45	4.9	41	6.3
I04	Yes	What is 3 times 23?	26	3.9	28	3.6	25	5.8
I09	Yes	Subtract: 6000-2369.	50	3.8	56	5.2	45	4.8
J04	Yes	25 x 18 is more than 24 x 18. How much more?	24	3.1	25	3.0	22	5.0
J09	Yes	Given chart with consecutive numbers in rows, extend pattern to find the number in square.	36	3.5	37	4.6	36	3.7
K02	Yes	Add: 6971 + 5291	79	2.3	79	3.8	79	2.8
L07	Yes	In which of the following pairs of numbers is the 2nd number 100 more than the 1st?	20	2.7	18	2.6	22	4.8
M03	Yes	Recognize symmetric property of multiplication: 7 x _ is the same as what?	48	3.3	58	6.0	40	4.3
M06	Yes	John wanted to add 1463 + 319, but entered 1263 + 319. How could he fix his mistake?	48	3.5	49	5.5	48	4.2
M08	Yes	Which of the following four-digit numbers is the largest?	76	3.0	77	3.6	75	4.0
S02	Yes	Complete number sentence: 2000+?+30+9=2739.	42	3.4	39	3.8	44	3.7
T02	Yes	Arrange four digits to make the smallest possible whole number.	15	1.9	14	1.9	16	4.1
U05	Yes	Write addition fact as a multiplication fact.	54	2.7	51	2.6	58	4.1
V02	Yes	Write the number that is 1000 more than 56,821.	24	3.3	25	5.5	23	3.6
V03	Yes	What is 5 less than 203?	24	2.8	24	4.2	24	3.0
V04A	Yes	Arrange 4 digits as addition of 2 2-digit numbers. Which sum is greater? How do you know?	0	0.2	0	0.4	.	.
V04B	Yes	Arrange 4 digits as addition of 2 2-digit numbers. Find arrangement with sum greater than either of above.	8	1.2	6	1.4	11	1.8

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=England SCALE=Data Rep., Analysis and Probability

			Third Grade					
			Overall		Boys		Girls	
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
B05	No	Multi-step graph problem: determine Sarah's relative height, then her height from graph.	55	1.6	50	1.9	61	2.1
C01	No	Shown graph (20 unit increments), which class collected 45 bottles?	80	1.3	81	1.8	79	1.8
D05	No	Shown bar graph, which two classes collected exactly 80 bottles?	75	1.6	72	2.5	77	1.5
F05	No	Shown temperature chart, when was the highest temperature recorded?	65	1.8	69	2.4	62	2.4
J03	Yes	Shown pie graph of how Mary spent her day, how much time did she spend on two categories combined?	63	2.3	66	3.7	60	3.7
K04	Yes	Add points from various rounds of a game to determine who won game and by how much.	36	2.8	36	3.5	36	3.8
L01	Yes	Given graph showing numbers of trees, how many trees does each symbol represent?	31	2.6	35	3.9	26	3.2
L02	Yes	Given bags containing different numbers of marbles, determine greatest chance of choosing red marble.	41	2.5	39	3.6	43	3.4
M01	Yes	Given several hexagons with various parts shaded, find greatest chance of stone landing on shaded area.	73	2.3	71	3.1	75	3.1
M02	Yes	Multi-step word problem: add 6 one-digit numbers and subtract from 60.	36	3.3	33	3.9	39	4.6
S01	Yes	Given table of frequencies, complete bar graph for same information.	28	2.0	27	2.4	30	2.8

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=England SCALE=Fractions and Proportionality

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
A01	No	In which figure are one-half of the dots black?	71	1.1	72	1.6	69	1.4
A02	No	Determine total number from ratio and one number.	51	1.1	51	1.5	51	1.7
B09	No	What is the sum of 2.5 and 3.8?	38	1.4	39	1.5	38	1.8
C03	No	Which figure shows 2/3 of the square shaded?	32	1.9	33	2.4	30	2.4
D08	No	Subtract: 4.03 - 1.15.	21	1.7	20	2.4	22	1.8
D09	No	Which of the following diagram has three out of every four squares shaded?	41	1.4	43	1.9	39	1.8
E04	No	Which of the following numbers means 7/10?	18	1.3	18	1.7	17	1.7
F06	No	Janis ate 1/2 cake, Maija ate 1/4, mother ate 1/4, how much remains?	64	1.5	65	2.1	64	2.1
G01	No	Given map and legend, how far apart are two cities?	29	1.4	30	2.0	28	1.9
I02	Yes	Which of the following word expressions is the same as .4?	11	1.6	12	2.6	10	2.4
I05	Yes	If five tomatoes make 1/2 liter of sauce, how much sauce do 15 tomatoes make?	39	2.9	46	3.9	32	3.6
I08	Yes	Shown four diagrams with various fractions shaded, which two represent the same fraction?	50	2.7	49	4.0	52	3.4
J07	Yes	Shown a square divided into 9 squares, 5 of which are shaded, what fraction of the figure is shaded?	31	2.8	29	3.7	34	3.7
K09	Yes	54 marbles are equally divided into 6 bags. How many marbles in 2 bags?	36	2.4	35	4.2	37	3.5
M05	Yes	Given partly shaded figure, which of the following numbers represents the shaded part?	38	3.2	40	3.9	36	4.1
S03	Yes	Solve word problem: 96.4-33.2	9	1.3	10	1.6	9	1.8
S04	Yes	Solve word problem: 10/30 = ?/90.	39	2.1	40	3.2	38	2.9
T04A	Yes	Does 10 girls and 20 boys mean one girl for every two boys? Explain.	17	1.2	13	1.7	20	1.9
T04B	Yes	Does 10 girls and 20 boys mean half of all students are girls? Explain.	9	1.0	7	1.6	12	1.9
U02	Yes	Write a fraction that is larger than 2/7.	45	2.0	45	2.8	45	2.5
U03A	Yes	Solve word problem using proportions: 3/10 = 9/?	42	1.8	44	2.8	39	2.3
U03B	Yes	Solve word problem using proportions: 1/3 = 9/?	22	1.5	24	2.2	21	2.0
U03C	Yes	Solve two proportions and compare results.	65	2.0	66	2.8	65	2.6
V01	Yes	Is 1/3 less than 1/4? Shade appropriate parts of a circle to demonstrate.	9	1.4	10	1.9	9	1.6

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=England SCALE=Geometry

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
B06	No	Which of these solids has both a flat surface and a curved surface?	61	1.3	60	1.7	61	1.8
D07	No	Which two figures are congruent?	80	1.3	78	1.4	82	2.0
F09	No	Which of the following must be true of a triangle?	71	1.5	71	2.2	71	2.0
H05	No	Shown diagram of a figure made of blocks, which of the following could be the figure after it is turned?	43	1.6	43	2.1	44	2.3
I01	Yes	Shown map with city blocks, and given directions to school, locate school on map.	46	3.0	52	3.7	39	4.0
I06	Yes	Which of the following figures is made with straight sides only?	70	2.9	69	3.9	70	3.8
J01	Yes	Shown hexagon divided into six triangles, identify smaller shape. (recognize triangles)	85	1.7	86	2.6	84	2.6
J02	Yes	Shown several drawings with a line through each, which does not show a line of symmetry?	68	2.4	69	3.5	68	3.6
K01	Yes	Shown figure with overlapping shapes, which number is in square and circle, but not in triangle?	69	3.1	69	4.3	69	3.9
K08	Yes	Which of the following rectangles is not divided into 4 equal parts?	64	2.5	62	3.8	66	3.3
L03	Yes	Shown "game board" graph, which object is located at (2,D)?	89	1.6	89	2.2	89	1.9
L05	Yes	Shown diagram of cube with one edge labeled, how many edges does the cube have?	30	2.7	31	4.1	29	3.5
M04	Yes	Given explanation of how grid works, give the coordinates of a particular point.	47	2.9	44	3.3	49	4.3
T05	Yes	Shown picture of folded paper with shape cut out, draw picture of cut-out when unfolded.	61	1.8	61	2.4	61	2.6

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=England SCALE=Measurement, Estimation, & Number Sense

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
A05	No	Which of these figures has the largest area?	75	1.0	75	1.6	76	1.1
B07	No	Word problem: best estimate of 84 x 57.	29	1.3	28	1.6	30	1.9
C02	No	Find volume of a stack of 5 cubes.	52	1.6	53	2.4	50	2.2
D06	No	How many degrees did temperature rise from minus 3 to 5?	48	1.6	50	1.9	47	2.5
E01	No	Shown calendar, what date is three weeks after December 2?	63	1.6	61	2.3	64	2.1
E03	No	Which of the following numbers would be rounded to 600 when rounded to the nearest hundred?	49	1.7	53	2.4	45	2.2
F08	No	Which units would be best to measure the weight (mass) of an egg?	52	1.8	58	2.3	46	2.6
G02	No	Which of the following could be the weight (mass) of an adult?	46	1.7	47	2.5	46	2.2
H06	No	Shown 6 x 4 rectangle, which of the following expressions gives the perimeter of the rectangle?	32	2.0	34	2.4	30	2.6
J06	Yes	Which of the following weight (mass) measures is the largest?	54	2.5	60	3.7	49	3.7
J08	Yes	Word problem: best estimate of 57 + 62 + 59.	28	2.7	28	3.8	28	2.8
K05	Yes	About how many centimeters is this picture of a pencil?	66	2.8	67	4.0	65	3.5
K07	Yes	A 20 cm wire is formed into a rectangle with width 4cm. What is the length?	21	2.6	22	3.6	20	3.2
L06	Yes	Given 1 clothespin = 9.2 g, which is the best estimate of the weight (mass) of 1000?	42	2.8	44	3.7	39	3.8
L08	Yes	Given number of paces in which each of several children cross the room, who had the longest pace?	20	2.3	24	3.3	15	3.0
M07	Yes	Which of the following would most likely be measured in milliliters?	30	2.5	29	3.3	30	4.5
S05	Yes	Given picture of a paper clip, about how many lengths of the clip is the length of this line?	44	2.0	46	2.3	42	2.9
T03	Yes	Mr. Brown talks a 1 hour and 30 minute walk and returns at 7:00. At what time did he start?	35	1.8	41	2.5	31	2.3
U01	Yes	Given a triangle and large irregular figure, how many triangles will cover the figure?	29	1.9	27	3.2	30	2.3
V05	Yes	How many millimeters are in a meter?	20	1.6	23	2.5	16	2.3

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=England SCALE=Patterns, Relations and Functions

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
G04	No	Given symbol for number of magazines read in a week, select expression for number read in 6 weeks.	32	1.7	33	2.4	30	1.8
H08	No	Given number pattern, what are the next three numbers?	68	1.7	68	2.3	68	2.1
I07	Yes	Given a 130 page book, and 78 pages read, which expression gives the number of pages remaining?	30	2.3	35	3.8	25	2.8
J05	Yes	Determine common operation between four pairs of numbers.	19	2.0	20	2.6	19	2.7
K03	Yes	Which pair of numbers follows the rule 'multiply by 5'?	31	2.4	29	3.6	33	3.2
K06	Yes	Extend pattern of figures to determine number of tiles in the sixth figure.	50	2.6	50	3.9	50	3.0
L04	Yes	Shown pattern of shapes, which of the following is arranged in the same pattern?	60	2.3	63	3.8	58	3.6
L09	Yes	Given statements about the relative ages of three children, which statement must also be true?	54	3.1	57	3.8	50	4.0
M09	Yes	4 x _ <17: Which number could go in the blank to make the sentence true?	41	2.8	48	3.4	34	4.1
U04	Yes	Explain operation used to find next number in a pattern.	41	2.1	43	3.3	38	2.5

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=England SCALE=Whole Numbers

			Third Grade					
			Overall		Boys		Girls	
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
A03	No	Find number of pencils given pencils/box and number of boxes.	32	1.0	33	1.4	32	1.2
A04	No	Find number of small squares given groupings of hundreds, tens, and ones.	71	1.1	72	1.5	70	1.3
B08	No	Which addition expression has the same value as 342?	65	1.6	68	1.7	62	2.2
C04	No	Which expression shows how long it will take to wash 8 windows at 4 minutes/window?	58	1.6	57	2.4	59	2.1
E02	No	Which digit is in the hundreds place in 2345?	54	1.6	57	2.1	51	2.2
F07	No	What number equals 3 ones + 5 tens + 4 hundreds + 60 thousands?	41	1.5	45	2.5	38	2.2
G03	No	Which of the following is a name for 9740?	77	1.6	76	2.3	78	1.7
H07	No	Determine the relative magnitude of three-digit numbers when digits are rearranged.	30	1.7	29	2.2	30	2.4
H09	No	Which number is equal to eight tens plus nine tens?	63	1.4	64	2.2	62	2.1
I03	Yes	Which of the numbers below, when subtracted from 900, yields an answer greater than 300?	43	2.4	49	3.7	37	3.5
I04	Yes	What is 3 times 23?	71	2.4	76	3.4	66	3.5
I09	Yes	Subtract: 6000-2369.	23	2.4	21	3.0	25	2.8
J04	Yes	25 x 18 is more than 24 x 18. How much more?	27	2.9	32	4.8	23	3.4
J09	Yes	Given chart with consecutive numbers in rows, extend pattern to find the number in square.	73	2.2	78	3.6	68	3.1
K02	Yes	Add: 6971 + 5291	43	2.6	38	3.6	48	3.4
L07	Yes	In which of the following pairs of numbers is the 2nd number 100 more than the 1st?	23	2.3	24	3.5	22	3.2
M03	Yes	Recognize symmetric property of multiplication: 7 x _ is the same as what?	50	2.5	48	3.6	52	3.8
M06	Yes	John wanted to add 1463 + 319, but entered 1263 + 319. How could he fix his mistake?	58	2.7	61	3.9	54	3.9
M08	Yes	Which of the following four-digit numbers is the largest?	69	3.0	69	3.3	70	4.3
S02	Yes	Complete number sentence: 2000+?+30+9=2739.	28	2.1	33	2.7	23	2.8
T02	Yes	Arrange four digits to make the smallest possible whole number.	23	1.6	25	2.3	22	1.9
U05	Yes	Write addition fact as a multiplication fact.	39	2.0	40	2.9	38	2.3
V02	Yes	Write the number that is 1000 more than 56,821.	19	1.7	23	2.5	15	2.3
V03	Yes	What is 5 less than 203?	44	2.2	50	2.7	37	2.5
V04A	Yes	Arrange 4 digits as addition of 2 2-digit numbers. Which sum is greater? How do you know?	5	0.9	4	1.1	6	1.3
V04B	Yes	Arrange 4 digits as addition of 2 2-digit numbers. Find arrangement with sum greater than either of above.	34	2.2	35	2.9	33	3.0

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Scotland SCALE=Data Rep., Analysis and Probability

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
B05	No	Multi-step graph problem: determine Sarah's relative height, then her height from graph.	57	1.5	52	2.1	61	1.8
C01	No	Shown graph (20 unit increments), which class collected 45 bottles?	83	1.5	83	1.7	83	1.9
D05	No	Shown bar graph, which two classes collected exactly 80 bottles?	74	1.5	71	2.1	77	2.1
F05	No	Shown temperature chart, when was the highest temperature recorded?	64	1.7	63	2.7	65	2.0
J03	Yes	Shown pie graph of how Mary spent her day, how much time did she spend on two categories combined?	60	2.5	60	3.9	60	3.5
K04	Yes	Add points from various rounds of a game to determine who won game and by how much.	30	2.4	37	4.1	24	2.8
L01	Yes	Given graph showing numbers of trees, how many trees does each symbol represent?	35	2.8	34	3.6	36	4.0
L02	Yes	Given bags containing different numbers of marbles, determine greatest chance of choosing red marble.	42	2.5	43	3.9	41	3.3
M01	Yes	Given several hexagons with various parts shaded, find greatest chance of stone landing on shaded area.	66	2.6	70	3.5	62	4.0
M02	Yes	Multi-step word problem: add 6 one-digit numbers and subtract from 60.	30	2.8	29	4.0	31	3.4
S01	Yes	Given table of frequencies, complete bar graph for same information.	24	1.7	26	2.2	21	2.4
T01A	Yes	Read simple information from bar graph.	63	2.2	69	2.4	56	3.3
T01B	Yes	Read information from bar graph and add to find a total.	19	1.7	20	2.5	19	2.0

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Scotland SCALE=Fractions and Proportionality

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
A01	No	In which figure are one-half of the dots black?	67	1.3	67	1.4	66	1.6
A02	No	Determine total number from ratio and one number.	48	1.1	49	1.5	47	1.4
B09	No	What is the sum of 2.5 and 3.8?	42	1.4	43	1.9	42	2.0
C03	No	Which figure shows 2/3 of the square shaded?	38	2.2	38	2.7	37	2.5
D08	No	Subtract: 4.03 - 1.15.	30	1.6	26	2.4	33	2.2
D09	No	Which of the following diagram has three out of every four squares shaded?	39	1.6	41	2.1	37	2.3
E04	No	Which of the following numbers means 7/10?	16	1.1	17	1.6	15	1.3
F06	No	Janis ate 1/2 cake, Maija ate 1/4, mother ate 1/4, how much remains?	63	1.7	60	2.6	66	2.3
G01	No	Given map and legend, how far apart are two cities?	28	1.4	30	2.0	25	2.0
I02	Yes	Which of the following word expressions is the same as .4?	9	1.6	9	2.2	8	2.3
I05	Yes	If five tomatoes make 1/2 liter of sauce, how much sauce do 15 tomatoes make?	29	2.4	31	3.6	26	3.4
I08	Yes	Shown four diagrams with various fractions shaded, which two represent the same fraction?	46	2.1	48	3.4	44	3.7
J07	Yes	Shown a square divided into 9 squares, 5 of which are shaded, what fraction of the figure is shaded?	40	3.0	38	3.8	41	4.1
K09	Yes	54 marbles are equally divided into 6 bags. How many marbles in 2 bags?	26	2.1	27	3.5	26	3.3
M05	Yes	Given partly shaded figure, which of the following numbers represents the shaded part?	34	2.4	36	3.3	33	3.1
S03	Yes	Solve word problem: 96.4-33.2	8	1.2	8	1.5	8	1.6
S04	Yes	Solve word problem: 10/30 = ?/90.	34	2.3	36	3.1	30	2.8
T04A	Yes	Does 10 girls and 20 boys mean one girl for every two boys? Explain.	11	1.3	11	1.6	12	1.7
T04B	Yes	Does 10 girls and 20 boys mean half of all students are girls? Explain.	6	1.0	6	1.5	5	1.1
U02	Yes	Write a fraction that is larger than 2/7.	39	2.1	39	3.1	38	2.5
U03A	Yes	Solve word problem using proportions: 3/10 = 9/?	37	1.9	43	2.9	31	2.7
U03B	Yes	Solve word problem using proportions: 1/3 = 9/?	29	1.9	35	2.8	24	2.7
U03C	Yes	Solve two proportions and compare results.	69	1.7	69	2.3	68	2.3
V01	Yes	Is 1/3 less than 1/4? Shade appropriate parts of a circle to demonstrate.	7	0.9	6	1.4	7	1.5

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Scotland SCALE=Geometry

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
B06	No	Which of these solids has both a flat surface and a curved surface?	66	1.7	63	2.1	68	2.1
D07	No	Which two figures are congruent?	81	1.2	81	1.9	81	1.5
F09	No	Which of the following must be true of a triangle?	68	1.4	69	1.8	68	2.0
H05	No	Shown diagram of a figure made of blocks, which of the following could be the figure after it is turned?	49	1.7	48	2.8	50	2.2
I01	Yes	Shown map with city blocks, and given directions to school, locate school on map.	54	2.8	58	3.4	51	4.4
I06	Yes	Which of the following figures is made with straight sides only?	67	2.4	65	3.6	68	3.3
J01	Yes	Shown hexagon divided into six triangles, identify smaller shape. (recognize triangles)	88	1.7	87	2.3	89	2.3
J02	Yes	Shown several drawings with a line through each, which does not show a line of symmetry?	80	2.3	78	3.2	82	3.0
K01	Yes	Shown figure with overlapping shapes, which number is in square and circle, but not in triangle?	62	2.3	61	3.1	63	3.5
K08	Yes	Which of the following rectangles is not divided into 4 equal parts?	71	2.7	75	3.3	69	3.5
L03	Yes	Shown "game board" graph, which object is located at (2,D)?	89	1.8	89	2.5	88	2.2
L05	Yes	Shown diagram of cube with one edge labeled, how many edges does the cube have?	39	2.4	42	3.5	36	3.3
M04	Yes	Given explanation of how grid works, give the coordinates of a particular point.	39	3.2	36	3.8	42	4.2
T05	Yes	Shown picture of folded paper with shape cut out, draw picture of cut-out when unfolded.	60	2.0	59	2.6	61	2.7

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Scotland SCALE=Measurement, Estimation, & Number Sense

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
A05	No	Which of these figures has the largest area?	81	1.1	82	1.2	81	1.4
B07	No	Word problem: best estimate of 84 x 57.	30	1.4	31	1.6	28	1.9
C02	No	Find volume of a stack of 5 cubes.	52	1.9	56	2.4	48	2.7
D06	No	How many degrees did temperature rise from minus 3 to 5?	46	1.6	48	2.3	44	2.3
E01	No	Shown calendar, what date is three weeks after December 2?	64	1.7	63	2.2	65	2.0
E03	No	Which of the following numbers would be rounded to 600 when rounded to the nearest hundred?	57	1.9	62	2.4	53	2.1
F08	No	Which units would be best to measure the weight (mass) of an egg?	42	1.6	46	2.2	39	2.2
G02	No	Which of the following could be the weight (mass) of an adult?	50	1.7	51	2.3	50	2.4
H06	No	Shown 6 x 4 rectangle, which of the following expressions gives the perimeter of the rectangle?	29	1.9	30	2.7	29	2.3
J06	Yes	Which of the following weight (mass) measures is the largest?	39	2.7	45	3.8	33	3.4
J08	Yes	Word problem: best estimate of 57 + 62 + 59.	29	2.8	30	3.5	29	3.8
K05	Yes	About how many centimeters is this picture of a pencil?	65	2.6	67	3.7	63	3.2
K07	Yes	A 20 cm wire is formed into a rectangle with width 4cm. What is the length?	26	2.6	23	3.6	29	3.4
L06	Yes	Given 1 clothespin = 9.2 g, which is the best estimate of the weight (mass) of 1000?	40	2.8	38	3.4	43	3.9
L08	Yes	Given number of paces in which each of several children cross the room, who had the longest pace?	10	1.4	11	2.0	9	2.5
M07	Yes	Which of the following would most likely be measured in milliliters?	27	2.3	27	3.2	27	3.3
S05	Yes	Given picture of a paper clip, about how many lengths of the clip is the length of this line?	41	1.9	40	2.2	42	3.0
T03	Yes	Mr. Brown talks a 1 hour and 30 minute walk and returns at 7:00. At what time did he start?	33	2.2	36	2.9	30	2.8
U01	Yes	Given a triangle and large irregular figure, how many triangles will cover the figure?	39	2.6	39	3.4	39	3.1
V05	Yes	How many millimeters are in a meter?	15	1.9	16	2.3	14	2.5

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Scotland SCALE=Patterns, Relations and Functions

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
G04	No	Given symbol for number of magazines read in a week, select expression for number read in 6 weeks.	38	1.7	42	2.4	33	2.0
H08	No	Given number pattern, what are the next three numbers?	68	1.7	66	2.5	70	1.8
I07	Yes	Given a 130 page book, and 78 pages read, which expression gives the number of pages remaining?	34	2.8	34	3.9	35	4.0
J05	Yes	Determine common operation between four pairs of numbers.	24	2.1	27	3.0	20	3.4
K03	Yes	Which pair of numbers follows the rule 'multiply by 5'?	32	2.8	34	3.8	30	3.6
K06	Yes	Extend pattern of figures to determine number of tiles in the sixth figure.	47	3.1	49	3.9	45	3.9
L04	Yes	Shown pattern of shapes, which of the following is arranged in the same pattern?	59	2.4	59	3.7	59	3.2
L09	Yes	Given statements about the relative ages of three children, which statement must also be true?	58	2.6	60	3.7	56	3.7
M09	Yes	4 x _ <17: Which number could go in the blank to make the sentence true?	47	3.3	45	4.2	48	4.1
U04	Yes	Explain operation used to find next number in a pattern.	44	2.0	49	3.1	39	2.2

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Scotland SCALE=Whole Numbers

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
A03	No	Find number of pencils given pencils/box and number of boxes.	35	1.2	36	1.5	34	1.6
A04	No	Find number of small squares given groupings of hundreds, tens, and ones.	75	1.1	77	1.4	72	1.3
B08	No	Which addition expression has the same value as 342?	70	1.6	73	1.9	67	1.9
C04	No	Which expression shows how long it will take to wash 8 windows at 4 minutes/window?	64	1.9	64	2.7	63	2.2
E02	No	Which digit is in the hundreds place in 2345?	49	1.8	53	2.5	45	2.1
F07	No	What number equals 3 ones + 5 tens + 4 hundreds + 60 thousands?	42	1.6	44	2.1	41	2.3
G03	No	Which of the following is a name for 9740?	79	1.4	77	1.9	79	1.8
H07	No	Determine the relative magnitude of three-digit numbers when digits are rearranged.	28	1.8	32	2.4	24	2.3
H09	No	Which number is equal to eight tens plus nine tens?	60	1.7	61	2.4	59	2.0
I03	Yes	Which of the numbers below, when subtracted from 900, yields an answer greater than 300?	38	2.5	37	3.8	39	3.8
I04	Yes	What is 3 times 23?	73	2.3	73	3.3	73	3.1
I09	Yes	Subtract: 6000-2369.	29	2.2	28	2.9	29	3.4
J04	Yes	25 x 18 is more than 24 x 18. How much more?	30	2.6	35	3.6	23	3.1
J09	Yes	Given chart with consecutive numbers in rows, extend pattern to find the number in square.	73	2.6	74	3.8	71	3.8
K02	Yes	Add: 6971 + 5291	48	2.8	42	4.2	53	3.7
L07	Yes	In which of the following pairs of numbers is the 2nd number 100 more than the 1st?	23	2.6	25	3.9	21	3.5
M03	Yes	Recognize symmetric property of multiplication: 7 x _ is the same as what?	51	2.5	51	3.1	50	3.4
M06	Yes	John wanted to add 1463 + 319, but entered 1263 + 319. How could he fix his mistake?	56	2.6	57	3.9	55	3.3
M08	Yes	Which of the following four-digit numbers is the largest?	68	2.3	71	3.4	65	3.0
S02	Yes	Complete number sentence: 2000+?+30+9=2739.	21	1.6	26	2.5	15	2.0
T02	Yes	Arrange four digits to make the smallest possible whole number.	26	1.8	27	3.0	24	2.0
U05	Yes	Write addition fact as a multiplication fact.	51	2.3	53	3.2	50	3.0
V02	Yes	Write the number that is 1000 more than 56,821.	17	1.7	19	2.3	14	2.1
V03	Yes	What is 5 less than 203?	44	2.1	48	2.8	41	2.9
V04A	Yes	Arrange 4 digits as addition of 2 2-digit numbers. Which sum is greater? How do you know?	7	1.2	8	1.6	7	1.4
V04B	Yes	Arrange 4 digits as addition of 2 2-digit numbers. Find arrangement with sum greater than either of above.	32	2.1	31	2.6	33	3.1

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=United States SCALE=Data Rep., Analysis and Probability

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
B05	No	Multi-step graph problem: determine Sarah's relative height, then her height from graph.	60	1.3	57	2.2	63	2.0
C01	No	Shown graph (20 unit increments), which class collected 45 bottles?	91	1.1	91	1.1	92	1.6
D05	No	Shown bar graph, which two classes collected exactly 80 bottles?	87	1.3	85	1.6	88	1.5
F05	No	Shown temperature chart, when was the highest temperature recorded?	70	1.4	68	1.9	72	2.2
J03	Yes	Shown pie graph of how Mary spent her day, how much time did she spend on two categories combined?	66	2.3	68	3.3	64	3.7
K04	Yes	Add points from various rounds of a game to determine who won game and by how much.	31	2.5	32	3.7	31	3.3
L01	Yes	Given graph showing numbers of trees, how many trees does each symbol represent?	40	2.4	38	3.3	43	3.7
L02	Yes	Given bags containing different numbers of marbles, determine greatest chance of choosing red marble.	54	2.7	50	3.8	59	4.1
M01	Yes	Given several hexagons with various parts shaded, find greatest chance of stone landing on shaded area.	75	2.5	76	3.3	74	3.9
M02	Yes	Multi-step word problem: add 6 one-digit numbers and subtract from 60.	33	2.5	34	3.6	32	3.8
S01	Yes	Given table of frequencies, complete bar graph for same information.	31	2.3	32	2.7	30	3.3
T01A	Yes	Read simple information from bar graph.	75	1.4	80	1.9	69	1.8
T01B	Yes	Read information from bar graph and add to find a total.	28	2.0	27	3.1	29	2.4

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=United States SCALE=Fractions and Proportionality

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
A01	No	In which figure are one-half of the dots black?	66	1.2	67	1.5	64	1.5
A02	No	Determine total number from ratio and one number.	46	1.2	45	1.5	46	1.7
B09	No	What is the sum of 2.5 and 3.8?	45	1.7	42	1.8	49	3.1
C03	No	Which figure shows 2/3 of the square shaded?	58	2.2	56	2.6	60	3.0
D08	No	Subtract: 4.03 - 1.15.	51	1.7	50	2.6	53	2.0
D09	No	Which of the following diagram has three out of every four squares shaded?	46	1.6	46	2.2	46	1.9
E04	No	Which of the following numbers means 7/10?	28	2.1	29	2.4	27	2.3
F06	No	Janis ate 1/2 cake, Maija ate 1/4, mother ate 1/4, how much remains?	52	1.9	49	2.0	56	2.7
G01	No	Given map and legend, how far apart are two cities?	22	1.5	27	1.8	18	2.3
I02	Yes	Which of the following word expressions is the same as .4?	21	2.5	25	3.2	16	3.4
I05	Yes	If five tomatoes make 1/2 liter of sauce, how much sauce do 15 tomatoes make?	37	3.3	37	4.2	36	4.3
I08	Yes	Shown four diagrams with various fractions shaded, which two represent the same fraction?	41	2.1	44	3.7	37	3.4
J07	Yes	Shown a square divided into 9 squares, 5 of which are shaded, what fraction of the figure is shaded?	63	3.2	67	4.4	59	4.3
K09	Yes	54 marbles are equally divided into 6 bags. How many marbles in 2 bags?	24	2.4	26	3.0	22	3.5
M05	Yes	Given partly shaded figure, which of the following numbers represents the shaded part?	18	2.5	18	3.7	18	3.1
S03	Yes	Solve word problem: 96.4-33.2	11	1.3	10	1.6	13	2.1
S04	Yes	Solve word problem: 10/30 = ?/90.	29	1.8	31	2.6	27	2.5
T04A	Yes	Does 10 girls and 20 boys mean one girl for every two boys? Explain.	13	1.6	11	1.9	16	2.1
T04B	Yes	Does 10 girls and 20 boys mean half of all students are girls? Explain.	6	1.1	5	1.4	7	1.4
U02	Yes	Write a fraction that is larger than 2/7.	56	2.7	55	3.1	57	3.6
U03A	Yes	Solve word problem using proportions: 3/10 = 9/?	41	1.9	42	2.5	40	2.6
U03B	Yes	Solve word problem using proportions: 1/3 = 9/?	23	1.7	21	2.0	25	2.6
U03C	Yes	Solve two proportions and compare results.	74	1.6	70	2.2	78	2.4
V01	Yes	Is 1/3 less than 1/4? Shade appropriate parts of a circle to demonstrate.	10	1.5	10	1.8	10	1.9

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=United States SCALE=Geometry

			Third Grade					
			Overall		Boys		Girls	
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
B06	No	Which of these solids has both a flat surface and a curved surface?	57	1.5	54	2.0	60	1.9
D07	No	Which two figures are congruent?	85	1.0	85	1.3	85	1.7
F09	No	Which of the following must be true of a triangle?	64	2.5	63	2.5	66	3.2
H05	No	Shown diagram of a figure made of blocks, which of the following could be the figure after it is turned?	39	1.6	38	1.8	40	2.6
I01	Yes	Shown map with city blocks, and given directions to school, locate school on map.	52	2.9	57	4.7	47	4.5
I06	Yes	Which of the following figures is made with straight sides only?	66	2.1	66	2.8	66	3.4
J01	Yes	Shown hexagon divided into six triangles, identify smaller shape. (recognize triangles)	90	1.6	90	2.0	89	2.5
J02	Yes	Shown several drawings with a line through each, which does not show a line of symmetry?	64	3.0	63	3.7	66	4.7
K01	Yes	Shown figure with overlapping shapes, which number is in square and circle, but not in triangle?	63	2.6	57	4.4	68	3.0
K08	Yes	Which of the following rectangles is not divided into 4 equal parts?	68	2.2	68	3.3	69	3.4
L03	Yes	Shown "game board" graph, which object is located at (2,D)?	93	1.2	90	1.9	95	1.2
L05	Yes	Shown diagram of cube with one edge labeled, how many edges does the cube have?	24	2.9	23	3.1	26	4.7
M04	Yes	Given explanation of how grid works, give the coordinates of a particular point.	45	3.1	42	3.9	49	4.3
T05	Yes	Shown picture of folded paper with shape cut out, draw picture of cut-out when unfolded.	45	1.7	48	2.0	42	2.5

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=United States SCALE=Measurement, Estimation, & Number Sense

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
A05	No	Which of these figures has the largest area?	71	1.2	71	1.5	72	1.5
B07	No	Word problem: best estimate of 84 x 57.	43	1.7	43	2.1	43	2.4
C02	No	Find volume of a stack of 5 cubes.	53	2.2	55	2.3	51	3.0
D06	No	How many degrees did temperature rise from minus 3 to 5?	41	1.6	42	2.3	40	2.0
E01	No	Shown calendar, what date is three weeks after December 2?	60	1.5	61	1.7	59	2.1
E03	No	Which of the following numbers would be rounded to 600 when rounded to the nearest hundred?	65	1.7	67	2.2	62	2.2
F08	No	Which units would be best to measure the weight (mass) of an egg?	45	2.1	44	2.6	45	2.9
G02	No	Which of the following could be the weight (mass) of an adult?	44	1.3	41	2.3	46	2.2
H06	No	Shown 6 x 4 rectangle, which of the following expressions gives the perimeter of the rectangle?	37	3.0	37	3.2	38	3.3
J06	Yes	Which of the following weight (mass) measures is the largest?	50	3.3	54	4.4	45	4.0
J08	Yes	Word problem: best estimate of 57 + 62 + 59.	50	2.6	49	4.0	51	4.4
K05	Yes	About how many centimeters is this picture of a pencil?	46	2.1	48	4.2	45	2.9
K07	Yes	A 20 cm wire is formed into a rectangle with width 4cm. What is the length?	25	2.7	25	3.2	25	3.5
L06	Yes	Given 1 clothespin = 9.2 g, which is the best estimate of the weight (mass) of 1000?	38	2.6	39	2.9	38	4.5
L08	Yes	Given number of paces in which each of several children cross the room, who had the longest pace?	5	1.0	5	1.4	6	1.8
M07	Yes	Which of the following would most likely be measured in milliliters?	33	2.8	35	4.0	31	3.0
S05	Yes	Given picture of a paper clip, about how many lengths of the clip is the length of this line?	43	2.2	44	2.5	42	3.2
T03	Yes	Mr. Brown talks a 1 hour and 30 minute walk and returns at 7:00. At what time did he start?	34	1.6	39	2.6	30	1.9
U01	Yes	Given a triangle and large irregular figure, how many triangles will cover the figure?	25	2.0	21	2.7	28	2.5
V05	Yes	How many millimeters are in a meter?	11	1.5	11	1.5	11	2.4

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=United States SCALE=Patterns, Relations and Functions

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
G04	No	Given symbol for number of magazines read in a week, select expression for number read in 6 weeks.	47	2.0	47	2.0	46	3.1
H08	No	Given number pattern, what are the next three numbers?	78	1.4	76	2.0	79	1.8
I07	Yes	Given a 130 page book, and 78 pages read, which expression gives the number of pages remaining?	53	3.3	51	4.4	55	3.8
J05	Yes	Determine common operation between four pairs of numbers.	27	2.9	26	3.6	27	3.6
K03	Yes	Which pair of numbers follows the rule 'multiply by 5'?	45	3.2	49	3.9	41	5.7
K06	Yes	Extend pattern of figures to determine number of tiles in the sixth figure.	48	3.0	50	3.8	46	4.6
L04	Yes	Shown pattern of shapes, which of the following is arranged in the same pattern?	67	2.7	63	3.5	71	3.6
L09	Yes	Given statements about the relative ages of three children, which statement must also be true?	64	2.4	56	3.6	72	3.6
M09	Yes	4 x _ <17: Which number could go in the blank to make the sentence true?	58	3.0	62	4.4	53	4.1
U04	Yes	Explain operation used to find next number in a pattern.	40	1.9	41	3.0	40	2.8

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=United States SCALE=Whole Numbers

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
A03	No	Find number of pencils given pencils/box and number of boxes.	46	1.5	43	1.8	49	1.8
A04	No	Find number of small squares given groupings of hundreds, tens, and ones.	82	1.0	84	1.1	79	1.3
B08	No	Which addition expression has the same value as 342?	76	1.4	77	1.7	74	2.1
C04	No	Which expression shows how long it will take to wash 8 windows at 4 minutes/window?	69	1.2	67	2.1	71	2.3
E02	No	Which digit is in the hundreds place in 2345?	76	1.8	77	1.5	75	2.6
F07	No	What number equals 3 ones + 5 tens + 4 hundreds + 60 thousands?	59	1.6	62	2.5	56	2.5
G03	No	Which of the following is a name for 9740?	86	1.0	83	1.3	89	1.4
H07	No	Determine the relative magnitude of three-digit numbers when digits are rearranged.	65	1.8	64	1.9	66	2.6
H09	No	Which number is equal to eight tens plus nine tens?	56	2.0	58	2.1	54	2.6
I03	Yes	Which of the numbers below, when subtracted from 900, yields an answer greater than 300?	40	3.1	39	3.7	41	4.4
I04	Yes	What is 3 times 23?	75	3.1	77	3.7	73	4.2
I09	Yes	Subtract: 6000-2369.	52	3.0	52	3.4	52	4.7
J04	Yes	25 x 18 is more than 24 x 18. How much more?	31	3.0	36	3.8	24	3.8
J09	Yes	Given chart with consecutive numbers in rows, extend pattern to find the number in square.	73	2.3	77	3.2	69	3.1
K02	Yes	Add: 6971 + 5291	75	2.8	70	4.1	78	2.8
L07	Yes	In which of the following pairs of numbers is the 2nd number 100 more than the 1st?	24	2.1	24	2.6	25	3.5
M03	Yes	Recognize symmetric property of multiplication: 7 x _ is the same as what?	65	2.8	63	3.4	66	3.3
M06	Yes	John wanted to add 1463 + 319, but entered 1263 + 319. How could he fix his mistake?	61	2.3	67	3.1	55	3.1
M08	Yes	Which of the following four-digit numbers is the largest?	82	2.0	83	2.1	81	3.6
S02	Yes	Complete number sentence: 2000+?+30+9=2739.	36	2.6	42	2.9	31	3.3
T02	Yes	Arrange four digits to make the smallest possible whole number.	35	2.3	36	2.6	34	3.7
U05	Yes	Write addition fact as a multiplication fact.	67	2.3	65	2.8	70	3.1
V02	Yes	Write the number that is 1000 more than 56,821.	31	1.6	36	2.6	27	2.2
V03	Yes	What is 5 less than 203?	48	1.8	48	2.8	48	2.6
V04A	Yes	Arrange 4 digits as addition of 2 2-digit numbers. Which sum is greater? How do you know?	16	1.5	12	1.6	21	2.6
V04B	Yes	Arrange 4 digits as addition of 2 2-digit numbers. Find arrangement with sum greater than either of above.	37	2.1	35	2.5	40	3.6

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Slovenia SCALE=Data Rep., Analysis and Probability

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
B05	No	Multi-step graph problem: determine Sarah's relative height, then her height from graph.	68	1.7	63	1.9	73	2.2
C01	No	Shown graph (20 unit increments), which class collected 45 bottles?	76	1.5	74	2.2	78	2.1
D05	No	Shown bar graph, which two classes collected exactly 80 bottles?	68	1.8	67	2.2	69	2.7
F05	No	Shown temperature chart, when was the highest temperature recorded?	66	1.7	65	2.5	67	2.3
J03	Yes	Shown pie graph of how Mary spent her day, how much time did she spend on two categories combined?	70	2.8	66	4.3	75	3.8
K04	Yes	Add points from various rounds of a game to determine who won game and by how much.	49	2.4	56	3.6	42	4.0
L01	Yes	Given graph showing numbers of trees, how many trees does each symbol represent?	33	2.7	40	3.9	26	3.8
L02	Yes	Given bags containing different numbers of marbles, determine greatest chance of choosing red marble.	44	3.3	42	3.9	46	4.6
M01	Yes	Given several hexagons with various parts shaded, find greatest chance of stone landing on shaded area.	71	2.3	70	3.6	72	3.7
M02	Yes	Multi-step word problem: add 6 one-digit numbers and subtract from 60.	57	2.8	57	3.8	58	3.8
S01	Yes	Given table of frequencies, complete bar graph for same information.	18	1.8	17	2.5	19	2.5
T01A	Yes	Read simple information from bar graph.	57	2.4	62	3.3	53	3.1
T01B	Yes	Read information from bar graph and add to find a total.	30	2.4	31	3.3	30	3.0

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Slovenia SCALE=Fractions and Proportionality

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
A01	No	In which figure are one-half of the dots black?	88	0.9	89	1.2	87	1.4
A02	No	Determine total number from ratio and one number.	53	1.4	54	1.6	52	1.8
B09	No	What is the sum of 2.5 and 3.8?	48	1.8	52	1.9	44	2.8
C03	No	Which figure shows 2/3 of the square shaded?	30	1.5	28	2.3	32	2.5
D08	No	Subtract: 4.03 - 1.15.	48	2.1	47	2.5	49	2.9
D09	No	Which of the following diagram has three out of every four squares shaded?	56	1.8	55	2.5	56	2.7
E04	No	Which of the following numbers means 7/10?	11	1.3	12	1.6	10	1.7
F06	No	Janis ate 1/2 cake, Maija ate 1/4, mother ate 1/4, how much remains?	67	1.6	64	2.5	69	2.3
G01	No	Given map and legend, how far apart are two cities?	36	1.9	38	2.6	34	2.6
I02	Yes	Which of the following word expressions is the same as .4?	10	1.7	14	2.8	5	1.6
I05	Yes	If five tomatoes make 1/2 liter of sauce, how much sauce do 15 tomatoes make?	48	3.2	54	3.8	41	4.7
I08	Yes	Shown four diagrams with various fractions shaded, which two represent the same fraction?	61	3.0	59	4.1	64	4.3
J07	Yes	Shown a square divided into 9 squares, 5 of which are shaded, what fraction of the figure is shaded?	20	2.2	21	3.7	19	2.6
K09	Yes	54 marbles are equally divided into 6 bags. How many marbles in 2 bags?	28	3.2	30	5.0	27	4.0
M05	Yes	Given partly shaded figure, which of the following numbers represents the shaded part?	27	2.5	30	3.9	24	3.6
S03	Yes	Solve word problem: 96.4-33.2	14	1.6	15	2.4	13	2.0
S04	Yes	Solve word problem: 10/30 = ?/90.	31	2.2	32	2.8	31	3.0
T04A	Yes	Does 10 girls and 20 boys mean one girl for every two boys? Explain.	9	1.6	8	1.6	10	2.2
T04B	Yes	Does 10 girls and 20 boys mean half of all students are girls? Explain.	2	0.7	2	0.8	3	1.1
U02	Yes	Write a fraction that is larger than 2/7.	20	2.3	20	2.6	20	3.1
U03A	Yes	Solve word problem using proportions: 3/10 = 9/?	53	2.0	56	2.4	49	2.7
U03B	Yes	Solve word problem using proportions: 1/3 = 9/?	36	2.1	40	3.1	31	3.3
U03C	Yes	Solve two proportions and compare results.	65	1.9	68	2.3	62	2.8
V01	Yes	Is 1/3 less than 1/4? Shade appropriate parts of a circle to demonstrate.	11	1.6	10	1.8	11	2.1

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Slovenia SCALE=Geometry

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
B06	No	Which of these solids has both a flat surface and a curved surface?	39	1.9	38	2.0	41	2.6
D07	No	Which two figures are congruent?	85	1.2	87	1.7	83	1.9
F09	No	Which of the following must be true of a triangle?	69	1.6	66	2.0	71	2.5
H05	No	Shown diagram of a figure made of blocks, which of the following could be the figure after it is turned?	54	1.8	59	2.7	49	2.8
I01	Yes	Shown map with city blocks, and given directions to school, locate school on map.	50	3.2	56	4.5	44	4.1
I06	Yes	Which of the following figures is made with straight sides only?	80	2.3	81	3.1	80	3.3
J01	Yes	Shown hexagon divided into six triangles, identify smaller shape. (recognize triangles)	89	1.6	86	2.4	94	1.9
J02	Yes	Shown several drawings with a line through each, which does not show a line of symmetry?	65	2.4	61	3.6	69	3.3
K01	Yes	Shown figure with overlapping shapes, which number is in square and circle, but not in triangle?	58	3.1	57	4.3	58	4.3
K08	Yes	Which of the following rectangles is not divided into 4 equal parts?	72	2.7	75	3.8	70	4.0
L03	Yes	Shown "game board" graph, which object is located at (2,D)?	85	2.0	86	2.9	84	2.9
L05	Yes	Shown diagram of cube with one edge labeled, how many edges does the cube have?	60	2.8	63	3.8	57	4.0
M04	Yes	Given explanation of how grid works, give the coordinates of a particular point.	39	3.1	37	4.2	40	4.4
T05	Yes	Shown picture of folded paper with shape cut out, draw picture of cut-out when unfolded.	56	2.0	53	2.9	58	2.9

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Slovenia SCALE=Measurement, Estimation, & Number Sense

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
A05	No	Which of these figures has the largest area?	77	1.2	76	1.2	78	1.8
B07	No	Word problem: best estimate of 84 x 57.	31	1.5	35	2.2	28	1.9
C02	No	Find volume of a stack of 5 cubes.	63	2.1	66	2.5	60	2.6
D06	No	How many degrees did temperature rise from minus 3 to 5?	44	1.7	52	2.9	36	2.0
E01	No	Shown calendar, what date is three weeks after December 2?	64	2.2	63	2.4	65	2.8
E03	No	Which of the following numbers would be rounded to 600 when rounded to the nearest hundred?	54	1.5	57	2.9	51	2.1
F08	No	Which units would be best to measure the weight (mass) of an egg?	56	1.8	59	2.6	54	2.6
G02	No	Which of the following could be the weight (mass) of an adult?	67	1.6	72	2.2	61	2.5
H06	No	Shown 6 x 4 rectangle, which of the following expressions gives the perimeter of the rectangle?	29	1.7	30	2.4	29	2.1
J06	Yes	Which of the following weight (mass) measures is the largest?	75	2.9	77	3.5	72	4.2
J08	Yes	Word problem: best estimate of 57 + 62 + 59.	26	2.5	24	3.9	27	3.2
K05	Yes	About how many centimeters is this picture of a pencil?	73	2.4	76	3.7	70	3.9
K07	Yes	A 20 cm wire is formed into a rectangle with width 4cm. What is the length?	11	1.8	11	2.7	11	2.4
L06	Yes	Given 1 clothespin = 9.2 g, which is the best estimate of the weight (mass) of 1000?	42	2.5	48	3.6	36	4.3
L08	Yes	Given number of paces in which each of several children cross the room, who had the longest pace?	34	3.2	37	4.1	32	4.8
M07	Yes	Which of the following would most likely be measured in milliliters?	35	2.8	34	3.5	36	4.4
S05	Yes	Given picture of a paper clip, about how many lengths of the clip is the length of this line?	22	1.6	26	2.3	18	2.1
T03	Yes	Mr. Brown talks a 1 hour and 30 minute walk and returns at 7:00. At what time did he start?	41	2.0	48	3.0	34	2.9
U01	Yes	Given a triangle and large irregular figure, how many triangles will cover the figure?	34	2.4	35	3.1	33	3.3
V05	Yes	How many millimeters are in a meter?	55	1.9	57	2.7	52	2.9

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Slovenia SCALE=Patterns, Relations and Functions

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
G04	No	Given symbol for number of magazines read in a week, select expression for number read in 6 weeks.	51	1.8	49	2.8	53	2.5
H08	No	Given number pattern, what are the next three numbers?	68	1.8	69	2.1	67	2.7
I07	Yes	Given a 130 page book, and 78 pages read, which expression gives the number of pages remaining?	60	3.0	62	3.9	57	4.4
J05	Yes	Determine common operation between four pairs of numbers.	34	2.6	32	3.4	35	4.2
K03	Yes	Which pair of numbers follows the rule 'multiply by 5'?	38	2.9	42	4.4	33	4.3
K06	Yes	Extend pattern of figures to determine number of tiles in the sixth figure.	55	3.6	59	4.7	51	4.3
L04	Yes	Shown pattern of shapes, which of the following is arranged in the same pattern?	54	3.2	50	4.7	57	4.0
L09	Yes	Given statements about the relative ages of three children, which statement must also be true?	60	3.1	60	4.0	59	4.4
M09	Yes	4 x _ <17: Which number could go in the blank to make the sentence true?	75	2.7	72	3.8	78	3.7
U04	Yes	Explain operation used to find next number in a pattern.	46	2.5	48	3.1	43	3.3

REL: Release Status (Yes= Item in Released Item Set)

COUNTRY ID=Slovenia SCALE=Whole Numbers

| | | | Third Grade | | | | | |
| | | | Overall | | Boys | | Girls | |
ITEM	REL	LABEL	%	(se)	%	(se)	%	(se)
A03	No	Find number of pencils given pencils/box and number of boxes.	53	1.9	53	2.4	52	2.1
A04	No	Find number of small squares given groupings of hundreds, tens, and ones.	81	1.1	82	1.3	80	1.4
B08	No	Which addition expression has the same value as 342?	88	1.0	88	1.2	87	1.5
C04	No	Which expression shows how long it will take to wash 8 windows at 4 minutes/window?	72	1.7	70	2.4	73	2.3
E02	No	Which digit is in the hundreds place in 2345?	56	1.7	60	2.5	51	2.5
F07	No	What number equals 3 ones + 5 tens + 4 hundreds + 60 thousands?	59	1.8	61	2.4	57	2.6
G03	No	Which of the following is a name for 9740?	76	1.4	77	2.2	75	2.0
H07	No	Determine the relative magnitude of three-digit numbers when digits are rearranged.	76	1.7	77	2.3	76	2.4
H09	No	Which number is equal to eight tens plus nine tens?	50	1.9	51	2.7	49	2.7
I03	Yes	Which of the numbers below, when subtracted from 900, yields an answer greater than 300?	56	2.7	58	4.1	53	4.4
I04	Yes	What is 3 times 23?	87	2.1	89	2.7	84	3.5
I09	Yes	Subtract: 6000-2369.	62	3.4	63	4.3	62	3.6
J04	Yes	25 x 18 is more than 24 x 18. How much more?	30	2.4	30	3.1	31	4.3
J09	Yes	Given chart with consecutive numbers in rows, extend pattern to find the number in square.	71	2.7	70	3.8	72	4.2
K02	Yes	Add: 6971 + 5291	72	2.7	75	3.6	69	4.3
L07	Yes	In which of the following pairs of numbers is the 2nd number 100 more than the 1st?	42	3.2	46	4.1	38	4.6
M03	Yes	Recognize symmetric property of multiplication: 7 x _ is the same as what?	55	3.0	56	4.4	53	4.5
M06	Yes	John wanted to add 1463 + 319, but entered 1263 + 319. How could he fix his mistake?	72	3.0	78	3.3	66	4.5
M08	Yes	Which of the following four-digit numbers is the largest?	86	2.0	87	2.4	85	3.0
S02	Yes	Complete number sentence: 2000+?+30+9=2739.	60	2.1	60	2.7	60	3.4
T02	Yes	Arrange four digits to make the smallest possible whole number.	19	1.9	20	2.4	17	2.4
U05	Yes	Write addition fact as a multiplication fact.	69	2.3	70	3.0	69	3.3
V02	Yes	Write the number that is 1000 more than 56,821.	41	2.1	46	2.4	36	3.5
V03	Yes	What is 5 less than 203?	63	2.5	63	3.3	62	3.3
V04A	Yes	Arrange 4 digits as addition of 2 2-digit numbers. Which sum is greater? How do you know?	33	2.0	27	2.6	40	2.8
V04B	Yes	Arrange 4 digits as addition of 2 2-digit numbers. Find arrangement with sum greater than either of above.	31	2.2	28	2.6	33	3.1

REL: Release Status (Yes= Item in Released Item Set)