

Appendix D

SELECTED MATHEMATICS ACHIEVEMENT RESULTS FOR DENMARK, SWEDEN,
AND SWITZERLAND (GERMAN-SPEAKING) – EIGHTH GRADE

Table D.1

Denmark - Selected Mathematics Achievement Results

Distributions of Mathematics Achievement - Eighth Grade

Mean	Years of Formal Schooling	Average Age	5th Percentile (Scale Score)	25th Percentile (Scale Score)	50th Percentile (Scale Score)	75th Percentile (Scale Score)	95th Percentile (Scale Score)
542 (2.9)	8	14.9	400 (3.9)	481 (1.7)	542 (5.9)	609 (3.2)	679 (7.2)

Gender Differences in Mathematics Achievement - Eighth Grade

Boys Mean	Girls Mean	Difference
547 (3.6)	537 (4.1)	10 (5.4)

Percentages of Students Achieving International Marker Levels in Mathematics Eighth Grade

Top 10% Level	Top Quarter Level	Top Half Level
5 (0.5)	19 (1.0)	42 (1.4)

Average Percent Correct by Mathematics Content Areas - Eighth Grade

Mathematics Overall	Fractions and Number Sense	Geometry	Algebra	Data Rep., Analysis, and Prob.	Measurement	Proportionality
60 (0.7)	62 (0.8)	59 (0.9)	54 (0.8)	73 (0.8)	59 (0.9)	47 (0.8)

Average Percent Correct for Boys and Girls by Mathematics Content Areas Eighth Grade

Mathematics Overall		Fractions & Number Sense		Geometry		Algebra	
Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls
61 (0.8)	59 (1.0)	64 (0.9)	60 (1.2)	58 (1.0)	60 (1.3)	55 (1.1)	55 (1.1)

Data Representation, Analysis & Probability		Measurement		Proportionality	
Boys	Girls	Boys	Girls	Boys	Girls
74 (1.1)	71 (1.0)	61 (1.0)	57 (1.3)	49 (1.1)	45 (1.2)

() Standard errors appear in parentheses. Because results are rounded to the nearest whole number, some totals may appear inconsistent.

SOURCE: IEA Third International Mathematics and Science Study (TIMSS), 1994-95.

Table D.2

Sweden - Selected Mathematics Achievement Results

Distributions of Mathematics Achievement - Eighth Grade

Mean	Years of Formal Schooling	Average Age	5th Percentile (Scale Score)	25th Percentile (Scale Score)	50th Percentile (Scale Score)	75th Percentile (Scale Score)	95th Percentile (Scale Score)
554 (4.4)	8	14.9	407 (10.9)	491 (3.1)	559 (11.5)	621 (2.4)	699 (2.2)

Gender Differences in Mathematics Achievement - Eighth Grade

Boys Mean	Girls Mean	Difference
553 (5.0)	555 (5.0)	2 (7.1)

Percentages of Students Achieving International Marker Levels in Mathematics Eighth Grade

Top 10% Level	Top Quarter Level	Top Half Level
8 (0.8)	23 (1.5)	48 (2.3)

Average Percent Correct by Mathematics Content Areas - Eighth Grade

Mathematics Overall	Fractions and Number Sense	Geometry	Algebra	Data Rep., Analysis, and Prob.	Measurement	Proportionality
62 (1.1)	68 (1.1)	56 (1.1)	54 (1.3)	76 (1.1)	61 (1.2)	50 (1.4)

Average Percent Correct for Boys and Girls by Mathematics Content Areas Eighth Grade

Mathematics Overall		Fractions & Number Sense		Geometry		Algebra	
Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls
62 (1.2)	63 (1.1)	67 (1.2)	68 (1.2)	57 (1.3)	55 (1.2)	52 (1.4)	55 (1.5)

Data Representation, Analysis & Probability		Measurement		Proportionality	
Boys	Girls	Boys	Girls	Boys	Girls
76 (1.3)	76 (1.2)	61 (1.4)	61 (1.3)	50 (1.5)	50 (1.4)

() Standard errors appear in parentheses. Because results are rounded to the nearest whole number, some totals may appear inconsistent.

SOURCE: IEA Third International Mathematics and Science Study (TIMSS), 1994-95.

Table D.3 **Switzerland (German Speaking) - Selected Mathematics Achievement Results**

Distributions of Mathematics Achievement - Eighth Grade

Mean	Years of Formal Schooling	Average Age	5th Percentile (Scale Score)	25th Percentile (Scale Score)	50th Percentile (Scale Score)	75th Percentile (Scale Score)	95th Percentile (Scale Score)
590 (3.2)	8	15.1	446 (5.8)	528 (7.2)	589 (3.8)	658 (4.2)	740 (5.7)

Gender Differences in Mathematics Achievement - Eighth Grade

Boys Mean	Girls Mean	Difference
598 (3.8)	584 (4.3)	14 (5.7)

Percentages of Students Achieving International Marker Levels in Mathematics Eighth Grade

Top 10% Level	Top Quarter Level	Top Half Level
18 (1.0)	35 (1.4)	61 (1.7)

Average Percent Correct by Mathematics Content Areas - Eighth Grade

Mathematics Overall	Fractions and Number Sense	Geometry	Algebra	Data Rep., Analysis, and Prob.	Measurement	Proportionality
70 (0.7)	74 (0.7)	69 (0.8)	65 (0.9)	78 (0.7)	70 (0.9)	60 (0.9)

Average Percent Correct for Boys and Girls by Mathematics Content Areas Eighth Grade

Mathematics Overall		Fractions & Number Sense		Geometry		Algebra	
Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls
72 (0.7)	69 (0.9)	76 (0.7)	73 (1.0)	70 (1.0)	68 (1.0)	66 (1.0)	63 (1.3)

Data Representation, Analysis & Probability		Measurement		Proportionality	
Boys	Girls	Boys	Girls	Boys	Girls
79 (0.8)	77 (1.0)	71 (1.0)	68 (1.2)	62 (1.1)	59 (1.2)

() Standard errors appear in parentheses. Because results are rounded to the nearest whole number, some totals may appear inconsistent.

SOURCE: IEA Third International Mathematics and Science Study (TIMSS), 1994-95.