

# Archived Information

## Exhibit B-6: Eighth-Grade Mathematics Performance, by Subtopic

### Average Percent Correct

Whole Numbers		Common Fractions		Decimal Fractions & Percentages		Relationships of Fractions		Estimations of Quantity & Size		Rounding		Estimating Computations		Measurement Units		Perimeter, Area, Volume		Measurement Estimations & Errors	
Higher than FiW		Higher than FiW		Same as FiW		Same as FiW		Same as FiW		Same as FiW		Same as FiW		Higher than FiW		Higher than FiW		Higher than FiW	
Singapore	80.4	Singapore	82.4	Singapore	77.9	Singapore	85.1	Japan	77.9	<b>First in the World</b>	89.1	Singapore	75.8	Singapore	77.9	Singapore	84.5	Czech Republic	82.9
				<b>First in the World</b>	78.3	<b>First in the World</b>	78.3	Singapore	77.3	Czech Republic	86.9	<b>First in the World</b>	74.5	Japan	72.6	Japan	72.6	Singapore	81.0
		<b>Same as FiW</b>	<b>Same as FiW</b>	Czech Republic	72.5	Korea	77.6	<b>First in the World</b>	76.2	Singapore	86.6	Czech Republic	69.8					Sweden	80.8
Japan	72.0	Japan	72.2	Hong Kong	71.1	Japan	75.3	England	72.2	Canada	84.7	Japan	69.0	Japan	74.8				
Switzerland	70.2	Korea	69.9	Japan	69.8	Hong Kong	74.1	Hong Kong	71.8	Korea	83.8	Korea	66.7	Czech Republic	73.2	<b>Same as FiW</b>			
Belgium (Fl)	68.6	Hong Kong	69.4	Hungary	68.7	Belgium (Fl)	71.3	Switzerland	71.8					Belgium (Fl)	71.8	Hong Kong	63.9	Korea	79.5
Korea	67.6	Belgium (Fl)	68.7	Korea	68.4			Czech Republic	71.7	<b>Lower than FiW</b>	<b>Lower than FiW</b>	<b>Lower than FiW</b>	<b>Lower than FiW</b>	Switzerland	71.6	<b>First in the World</b>	49.9	Belgium (Fl)	78.9
Czech Republic	67.4	<b>First in the World</b>	65.8	<b>Lower than FiW</b>		<b>Lower than FiW</b>		Netherlands	71.2	Belgium (Fl)	81.0	Belgium (Fl)	64.1	Sweden	69.5	Czech Republic	48.9	Hungary	78.2
<b>First in the World</b>	67.0	Switzerland	62.4	<b>Lower than FiW</b>		Switzerland	70.0	Belgium (Fl)	70.7	Hungary	79.8	Switzerland	62.5	France	69.0	Switzerland	46.6	Switzerland	78.2
Hong Kong	65.4	Czech Republic	59.6	Russian Federation	65.9	France	67.2	Korea	70.7	Japan	79.6	Canada	61.3	Korea	67.9	Belgium (Fl)	45.6	Netherlands	76.1
France	64.5	Netherlands	58.9	France	64.9	Canada	65.1	Australia	69.3	<b>United States</b>	79.2	Sweden	60.0	Hungary	67.5	France	44.1	France	75.2
Russian Federation	62.7	France	57.8	Belgium (Fl)	64.6	Czech Republic	64.9	Czech Republic	69.3	Netherlands	78.5	Australia	59.1	Netherlands	66.8	Hungary	42.9	<b>First in the World</b>	75.0
Spain	60.8	Hungary	57.7	Switzerland	61.9	Germany	62.6	Sweden	69.3	Sweden	78.5	Netherlands	58.7	First in the World	66.4	Russian Federation	44.6	Australia	74.5
Hungary	60.6	Israel	57.4	Canada	61.0	Sweden	62.2	France	69.0	Australia	77.5	Hong Kong	57.8	Norway	66.4	Netherlands	44.0	Norway	74.5
Sweden	58.9	<b>Lower than FiW</b>		Sweden	59.2	Australia	61.0	Germany	69.0	Switzerland	77.4	New Zealand	57.6	Russian Federation	65.9	Australia	42.1	Germany	72.9
Israel	59.0			Thailand	58.0	Hungary	60.7			Thailand	75.4	Hungary	57.3	Australia	65.0	Canada	40.4	Hong Kong	72.7
Canada	57.9	Canada	56.2	Netherlands	57.8	Norway	59.6	<b>Lower than FiW</b>		France	74.7	Norway	57.0	Hong Kong	65.2	Thailand	40.0	Japan	72.5
		Australia	55.4	Germany	57.2	Netherlands	62.5	Canada	67.8	New Zealand	74.4	<b>United States</b>	55.7	Germany	63.5	Sweden	39.3	England	71.8
		Russian Federation	55.8	Israel	56.3	Thailand	59.6	Norway	66.6	Hong Kong	74.2	England	54.4	Canada	63.0	<b>INTERNATIONAL</b>	39.0	New Zealand	70.6
Thailand	56.0	Thailand	54.2	<b>United States</b>	55.8	Russian Federation	59.2	New Zealand	65.3	England	74.2	Germany	52.0	Israel	63.0	England	37.1	Canada	69.7
<b>INTERNATIONAL</b>	55.5	Sweden	53.1	<b>INTERNATIONAL</b>	55.4	<b>United States</b>	58.5	Russian Federation	63.5	Russian Federation	73.5	Israel	51.9	Spain	62.4	Israel	36.9	Russian Federation	69.6
Germany	55.4	<b>INTERNATIONAL</b>	52.1	Norway	54.1	Israel	57.6	<b>United States</b>	62.7	Norway	72.3	France	50.8	Thailand	62.3				
Australia	55.0	Germany	51.7	Australia	53.5	<b>INTERNATIONAL</b>	56.9	<b>INTERNATIONAL</b>	61.0	<b>INTERNATIONAL</b>	70.7	<b>INTERNATIONAL</b>	50.6	<b>INTERNATIONAL</b>	61.4	<b>Lower than FiW</b>		<b>Lower than FiW</b>	
Netherlands	53.5	New Zealand	51.5	Spain	50.6	New Zealand	56.8	Israel	58.4	Israel	69.9	Russian Federation	50.0	New Zealand	61.3	Norway	36.4	Thailand	66.1
Norway	53.4	Norway	51.2	New Zealand	49.3	England	53.8	Thailand	57.1	Israel	68.8	Thailand	49.5	England	60.5	New Zealand	35.0	<b>INTERNATIONAL</b>	64.7
<b>United States</b>	52.3	<b>United States</b>	49.3	England	45.9	Spain	48.2	Spain	54.8	Spain	62.2	Spain	44.1			Germany	32.9	Israel	63.3
New Zealand	48.6	England	49.2											<b>Lower than FiW</b>		Spain	29.9	<b>United States</b>	62.5
England	46.8	Spain	49.2											<b>United States</b>	53.0	<b>United States</b>	27.8	Spain	55.3

  

2D Geometry Basics		Polygons & Circles		3D Geometry & Transformations		Congruence & Similarity		Proportionality Concepts		Proportionality Problems		Patterns, Relations, & Functions		Equations & Formulas		Data Represent. & Analysis		Statistics & Probability	
Higher than FiW		Higher than FiW		Same as FiW		Higher than FiW		Higher than FiW		Higher than FiW		Same as FiW		Higher than FiW		Same as FiW		Same as FiW	
Japan	78.9	Korea	73.0	Japan	84.3	Japan	79.7	Singapore	70.1	Singapore	76.7	Japan	70.0	Singapore	79.8	Japan	84.3	<b>First in the World</b>	81
		Japan	70.8	Singapore	78.6	Korea	76.9					Korea	68.4			<b>First in the World</b>	83.2	Singapore	78.5
		Singapore	70.6	<b>First in the World</b>	78.0	Singapore	76.7	<b>Same as FiW</b>		<b>Same as FiW</b>		Singapore	67.2	<b>Same as FiW</b>		Korea	81.9	Korea	77.8
Singapore	78.3	<b>Same as FiW</b>		Czech Republic	77.7	<b>Same as FiW</b>		Korea	57.0	Japan	67.8	<b>First in the World</b>	63.2	Japan	72.3	France	81.4	Belgium (Fl)	77.7
Korea	75.5			France	77.7			Japan	56.9	Korea	65.1	Hong Kong	60.8	Hong Kong	70.5	Switzerland	81.3	Japan	75.0
Hong Kong	73.5	Hong Kong	65.4	Hong Kong	77.6	Hong Kong	71.0	<b>First in the World</b>	50.6	Hong Kong	64.0	Czech Republic	60.2	Korea	70.0	Singapore	81.0	Hong Kong	73.0
<b>First in the World</b>	65.0	Belgium (Fl)	64.1	Switzerland	75.9	France	69.7	Hong Kong	50.1	Czech Republic	61.3	England	60.1	<b>First in the World</b>	67.8	Netherlands	80.6	Netherlands	72.4
Russian Federation	63.4	France	61.9	Belgium (Fl)	73.7	Czech Republic	66.1	Netherlands	41.9	<b>First in the World</b>	61.1	Switzerland	59.5	Czech Republic	64.3	Czech Republic	79.6		
Netherlands	62.9	Israel	59.7	Korea	73.3	Thailand	62.7	<b>Lower than FiW</b>		Belgium (Fl)	59.4	Belgium (Fl)	59.2	Belgium (Fl)	62.1	Sweden	79.5	<b>Lower than FiW</b>	
Thailand	62.4	Czech Republic	57.4	Hungary	71.0	Russian Federation	62.3			Switzerland	57.3	Hungary	59.1	Russian Federation	61.4	Belgium (Fl)	79.5	Switzerland	72.4
Czech Republic	62.1	Russian Federation	57.2	Netherlands	70.6	<b>First in the World</b>	62.2	Canada	40.3	Russian Federation	56.3	Canada	58.2	Hungary	60.9	Hong Kong	76.4	Canada	70.0
Hungary	61.6	<b>First in the World</b>	56.1	Russian Federation	70.2	Belgium (Fl)	57.5	Sweden	39.2	Thailand	56.0	Australia	57.6	Israel	58.3	Germany	76.0	Sweden	68.7
Australia	58.8	Thailand	53.5	Canada	70.1	Israel	54.8	Belgium (Fl)	39.0	Hungary	55.9	Netherlands	56.9					Australia	67.5
Switzerland	57.9	Hungary	51.6			Hungary	53.4	Australia	37.8	Netherlands	55.9	New Zealand	55.7	<b>Lower than FiW</b>		<b>Lower than FiW</b>		France	66.5
Belgium (Fl)	58.8	Canada	50.5	<b>Lower than FiW</b>		Canada	52.8	France	37.3	France	55.7	France	55.0			Thailand	54.0	Norway	66.2
France	56.1	Australia	50.4	New Zealand	67.3	Netherlands	51.0	Switzerland	36.8			Switzerland	53.2	France	53.6	Australia	75.2	New Zealand	65.9
New Zealand	55.8	<b>INTERNATIONAL</b>	48.9	England	66.3	Czech Republic	37.3	Czech Republic	37.3	<b>Lower than FiW</b>		<b>Lower than FiW</b>		Australia	52.8	Canada	75.0	England	65.3
England	54.9	Switzerland	48.6	Australia	65.5	<b>Lower than FiW</b>		Thailand	36.5	Australia	52.2	Thailand	53.4	Canada	52.4	England	74.8	Norway	64.7
Canada	54.7	England	47.0	Israel	64.8	<b>INTERNATIONAL</b>	52.6	England	34.8	Canada	51.6	Russian Federation	53.2	Spain	52.2	Thailand	74.5	Czech Republic	63.4
<b>INTERNATIONAL</b>	53.8	Netherlands	44.0	Thailand	64.5	Switzerland	51.2	Hungary	34.6	<b>INTERNATIONAL</b>	50.1	Israel	53.2	Switzerland	51.9	New Zealand	74.1	<b>United States</b>	63.1
Israel	52.5			Germany	63.7	Australia	50.9	Russian Federation	33.5	Sweden	49.2	<b>INTERNATIONAL</b>	51.4	Netherlands	51.7	Hungary	73.7	Germany	62.4
Norway	52.1	<b>Lower than FiW</b>		<b>INTERNATIONAL</b>	63.6	Norway	46.9	<b>INTERNATIONAL</b>	33.4	Germany	49.0	<b>United States</b>	51.1	<b>INTERNATIONAL</b>	50.6	Israel	73.2	Israel	62.3
Germany	49.3	Germany	44.3	Norway	58.6	New Zealand	45.9	New Zealand	33.4	England	47.2	Spain	50.3	<b>United States</b>	49.4	<b>United States</b>	72.6	<b>INTERNATIONAL</b>	59.6
		New Zealand	43.2	<b>United States</b>	58.4	Sweden	45.9	<b>United States</b>	31.5	New Zealand	47.1	Norway	48.7	Germany	46.4	Russian Federation	72.0	Spain	58.0
		Sweden	42.8	Spain	58.2	England	45.6	Israel	31.4	Israel	46.5	Germany	47.6	New Zealand	46.6	<b>INTERNATIONAL</b>	70.9	Russian Federation	56.9
Spain	49.5	Norway	42.4	Sweden	55.9	Germany	45.1	Norway	30.9	Norway	47.1	Sweden	47.2	Norway	44.9	Spain	70.4	Thailand	56.5
<b>United States</b>	47.9	Spain	39.3			<b>United States</b>	44.1	Spain	27.4	<b>United States</b>	45.2			England	44.1				
Sweden	46.1	<b>United States</b>	39.1			Spain	43.6	Germany	26.5	Spain	43.6			Sweden	43.7				