Archived Information

Exhibit B-3: Fourth-Grade Mathematics Performance, by Subtopic Average Percent Correct

						verage Percent				Rounding &			
Meaning of Whole Numbers		Integers & Whole Number Operations		Common Fractions		Decimal Fractions		Estimating Quantity & Size		Estimating Computations		Measurement Units	
Higher than FiW		Same as FiW		Same as FiW		Higher than FiW		Higher than FiW		Same as FiW		Higher than FiW	
Korea	88.1	Korea	82.5	Singapore	71.8	Singapore	83.2	Japan	78.0	Korea	76.8	Japan	76.5
Korca	00.1	Japan	80.2	First in the World	65.7	Korea	75.0	Hong Kong	70.5	Japan	74.8	Korea	72.1
Same as FiW		Singapore	79.2	Hong Kong	65.3	Hong Kong	72.6	Czech Republic	67.9	Hong Kong	74.8	Netherlands	72.0
First in the World	81.7	First in the World	78.6	Japan	62.5	Japan	71.3	Hungary	67.3	Singapore	74.3	Czech Republic	68.2
Singapore		Hong Kong	76.9	Korea	61.5	vapan	, 1.0	Korea	67.0	First in the World	73.8	Hong Kong	67.6
Japan		Czech Republic	74.4	Hungary	61.2	Same as FiW		Netherlands	65.9	Netherlands	68.7	Hungary	66.3
Jupan	,,,,	Czeen respublic	,	Netherlands	60.2	First in the World	59.7	Singapore	65.3	Hungary	68.6	Tungury	00.5
Lower than FiW		Lower than FiW						Australia	61.2	Czech Republic	68.1	Same as FiW	
Hong Kong 76.4		Netherlands 73.2		Lower than FiW		Lower than FiW		Norway	60.6	United States	67.2	Singapore	61.3
Hungary	74.5	Hungary	71.5	United States	53.7	Netherlands	47.1					Australia	60.2
Netherlands	73.3	United States	67.6	Israel	53.3	United States	46.8	Same as FiW		Lower than FiV	v	Norway	60.0
Czech Republic	72.9	Israel	66.3	Australia	52.0	INTERNATIONAL	44.6	INTERNATIONAL	57.2	Canada	61.6	First in the World	58.0
Israel	69.8	INTERNATIONAL	64.1	Canada	50.4	Australia	43.7	First in the World	52.9	Israel	61.2	INTERNATIONAL	56.8
United States	69.8	Canada	61.5	Czech Republic	49.7	Thailand	43.6	England	52.2	Australia	59.4		
Australia	68.9	Australia	61.5	INTERNATIONAL	50.0	Canada	41.5	New Zealand	51.9	INTERNATIONAL	55.2	Lower than FiV	N
Canada	68.7	Norway	57.6	England	49.1	Czech Republic	40.1	Canada	50.7	New Zealand	47.9	England	52.3
INTERNATIONAL		England	53.1	Thailand	46.4	Hungary	36.4	Israel	50.5	England	47.7	Canada	51.7
Norway	61.4	Thailand	52.7	New Zealand	45.3	Israel	34.2	Thailand	49.8	Norway	46.4	Israel	51.0
New Zealand	59.1	New Zealand	50.8	Norway	39.2	England	32.0	United States	47.1	Thailand	39.1	New Zealand	49.7
England	59.0	Trew Zealand	30.0	1101 way	37.2	Norway	28.9	Cinted States	.,.1	Thurana	37.1	United States	48.0
Thailand	57.3					New Zealand	26.3					Thailand	43.2
L													
				G			20.3						13.2
Perimeter, Area,	&	Geometry: Position	n &	Symmetry,	Q.			Patterns, Relation	ıs, &	Equations &			
Perimeter, Area, Volume	&	Geometry: Position	n &	Congruence,	&	Proportionalit		Patterns, Relation Functions	ns, &	Equations & Formulas		Data & Statisti	
Volume		Shapes	n &	Congruence, of Similarity		Proportionalit		Functions	ns, &	Formulas		Data & Statisti	
Volume Higher than Fi	W	Shapes Same as FiW		Congruence, a Similarity Same as FiW		Proportionalit	y	Functions Same as FiW		Formulas Higher than Fiv	N	Data & Statisti Same as FiW	ics
Volume Higher than Fit Singapore		Shapes	77 71.9	Congruence, a Similarity Same as FiW Singapore		Proportionalit		Functions	85.0	Formulas		Data & Statisti	
Volume Higher than Fi	W 75.9	Shapes Same as FiW First in the World	77	Congruence, a Similarity Same as FiW Singapore Korea	88.9	Proportionalit Same as FiW Singapore	y 63.7	Functions Same as FiW Korea First in the World		Formulas Higher than Five Korea	N	Data & Statisti Same as FiW First in the World	86.4
Volume Higher than Fit Singapore Korea	W 75.9	Shapes Same as FiW First in the World Australia	77 71.9	Congruence, a Similarity Same as FiW Singapore Korea Hong Kong	88.9 88.8 85.4	Proportionalit Same as FiW Singapore Netherlands First in the World	63.7 62.7 59.4	Functions Same as FiW Korea First in the World Hong Kong	85.0 78.0 77.8	Formulas Higher than Fiv Korea Same as FiW	<i>N</i> 85.3	Data & Statisti Same as FiW First in the World Lower than FiV	86.4 W
Volume Higher than Fit Singapore	W 75.9	Shapes Same as FiW First in the World	77 71.9	Congruence, a Similarity Same as FiW Singapore Korea	88.9 88.8 85.4	Proportionalit Same as FiW Singapore Netherlands	y 63.7 62.7	Functions Same as FiW Korea First in the World Hong Kong Singapore	85.0 78.0	Formulas Higher than Fiv Korea Same as FiW Japan	N	Data & Statisti Same as FiW First in the World	86.4
Volume Higher than Fit Singapore Korea Same as FiW Netherlands	75.9 73.5 71.0	Shapes Same as FiW First in the World Australia Lower than FiV	77 71.9 v	Congruence, a Similarity Same as FiW Singapore Korea Hong Kong First in the World	88.9 88.8 85.4 85.2	Proportionalit Same as FiW Singapore Netherlands First in the World Korea	63.7 62.7 59.4 58.1	Functions Same as FiW Korea First in the World Hong Kong	85.0 78.0 77.8 77.5	Formulas Higher than Fiv Korea Same as FiW	N 85.3 84.3	Data & Statisti Same as FiW First in the World Lower than FiV Singapore	86.4 W 80.8
Volume Higher than Fit Singapore Korea Same as FiW Netherlands Hong Kong	75.9 73.5 71.0	Shapes Same as FiW First in the World Australia Lower than FiV England Netherlands	77 71.9 V 70.6	Congruence, a Similarity Same as FiW Singapore Korea Hong Kong First in the World England	88.9 88.8 85.4 85.2 80.9	Proportionalit Same as FiW Singapore Netherlands First in the World Korea Japan Czech Republic	63.7 62.7 59.4 58.1 57.7	Functions Same as FiW Korea First in the World Hong Kong Singapore Japan	85.0 78.0 77.8 77.5 77.2	Formulas Higher than Five Korea Same as Fiwe Japan Singapore First in the World	84.3 82.6	Data & Statisti Same as FiW First in the World Lower than FiV Singapore Korea Japan	86.4 W 80.8 79.8 78.3
Volume Higher than Fit Singapore Korea Same as FiW Netherlands	75.9 73.5 71.0 70.8	Shapes Same as FiW First in the World Australia Lower than FiV England	77 71.9 V 70.6 70.3	Congruence, a Similarity Same as FiW Singapore Korea Hong Kong First in the World	88.9 88.8 85.4 85.2 80.9	Proportionalit Same as FiW Singapore Netherlands First in the World Korea Japan Czech Republic Hungary	63.7 62.7 59.4 58.1 57.7 57.3	Functions Same as FiW Korea First in the World Hong Kong Singapore Japan Lower than FiV	85.0 78.0 77.8 77.5 77.2	Formulas Higher than Five Korea Same as Fiwe Japan Singapore First in the World Hong Kong	84.3 82.6 78.5	Data & Statisti Same as FiW First in the World Lower than FiV Singapore Korea	86.4 W 80.8 79.8
Volume Higher than Fit Singapore Korea Same as FiW Netherlands Hong Kong Czech Republic	75.9 73.5 71.0 70.8 68.2 67.5	Shapes Same as FiW First in the World Australia Lower than FiV England Netherlands Hong Kong	77 71.9 V 70.6 70.3 70.1	Congruence, a Similarity Same as FiW Singapore Korea Hong Kong First in the World England Lower than Fiv	88.9 88.8 85.4 85.2 80.9	Proportionalit Same as FiW Singapore Netherlands First in the World Korea Japan Czech Republic	63.7 62.7 59.4 58.1 57.7 57.3 55.5	Functions Same as FiW Korea First in the World Hong Kong Singapore Japan	85.0 78.0 77.8 77.5 77.2	Formulas Higher than Five Korea Same as Fiwe Japan Singapore First in the World	84.3 82.6 78.5 76.9	Same as FiW First in the World Lower than FiV Singapore Korea Japan Hong Kong	86.4 W 80.8 79.8 78.3 75.8
Volume Higher than Fi' Singapore Korea Same as FiW Netherlands Hong Kong Czech Republic Japan First in the World	75.9 73.5 71.0 70.8 68.2 67.5	Shapes Same as FiW First in the World Australia Lower than FiV England Netherlands Hong Kong Canada	77 71.9 V 70.6 70.3 70.1 69.4	Congruence, a Similarity Same as FiW Singapore Korea Hong Kong First in the World England Lower than Fiv Australia	88.9 88.8 85.4 85.2 80.9 W	Proportionalit Same as FiW Singapore Netherlands First in the World Korea Japan Czech Republic Hungary	63.7 62.7 59.4 58.1 57.7 57.3 55.5 53.3	Functions Same as FiW Korea First in the World Hong Kong Singapore Japan Lower than FiV Hungary	85.0 78.0 77.8 77.5 77.2 V	Formulas Higher than Fiv Korea Same as FiW Japan Singapore First in the World Hong Kong Hungary	84.3 82.6 78.5 76.9 72.4	Same as FiW First in the World Lower than FiV Singapore Korea Japan Hong Kong Netherlands	86.4 W 80.8 79.8 78.3 75.8 75.4
Volume Higher than Fi' Singapore Korea Same as FiW Netherlands Hong Kong Czech Republic Japan	75.9 73.5 71.0 70.8 68.2 67.5 65.9	Shapes Same as FiW First in the World Australia Lower than FiV England Netherlands Hong Kong Canada United States	77 71.9 V 70.6 70.3 70.1 69.4 67.7	Congruence, a Similarity Same as FiW Singapore Korea Hong Kong First in the World England Lower than Fiv Australia Japan	88.9 88.8 85.4 85.2 80.9 W 79.9 79.5	Proportionalit Same as FiW Singapore Netherlands First in the World Korea Japan Czech Republic Hungary Hong Kong	63.7 62.7 59.4 58.1 57.7 57.3 55.5 53.3	Functions Same as FiW Korea First in the World Hong Kong Singapore Japan Lower than FiV Hungary Netherlands	85.0 78.0 77.8 77.5 77.2 V 71.4 70.4	Formulas Higher than Fiv Korea Same as FiW Japan Singapore First in the World Hong Kong Hungary	84.3 82.6 78.5 76.9 72.4 72.2	Same as FiW First in the World Lower than FiV Singapore Korea Japan Hong Kong Netherlands United States	86.4 W 80.8 79.8 78.3 75.8 75.4 73.0
Volume Higher than Fi' Singapore Korea Same as FiW Netherlands Hong Kong Czech Republic Japan First in the World Hungary	75.9 73.5 71.0 70.8 68.2 67.5 65.9 62.8	Shapes Same as FiW First in the World Australia Lower than FiV England Netherlands Hong Kong Canada United States Czech Republic	77 71.9 V 70.6 70.3 70.1 69.4 67.7 67.4	Congruence, a Similarity Same as FiW Singapore Korea Hong Kong First in the World England Lower than Fiv Australia Japan United States	88.9 88.8 85.4 85.2 80.9 W 79.9 79.5 78.5	Proportionalit Same as FiW Singapore Netherlands First in the World Korea Japan Czech Republic Hungary Hong Kong Lower than FiV	63.7 62.7 59.4 58.1 57.7 57.3 55.5 53.3	Functions Same as FiW Korea First in the World Hong Kong Singapore Japan Lower than FiV Hungary Netherlands Czech Republic	85.0 78.0 77.8 77.5 77.2 V 71.4 70.4 69.8	Formulas Higher than Fiv Korea Same as FiW Japan Singapore First in the World Hong Kong Hungary Netherlands	84.3 82.6 78.5 76.9 72.4 72.2	Data & Statisti Same as FiW First in the World Lower than FiV Singapore Korea Japan Hong Kong Netherlands United States Canada	86.4 W 80.8 79.8 78.3 75.8 75.4 73.0 68.0
Volume Higher than Fi' Singapore Korea Same as FiW Netherlands Hong Kong Czech Republic Japan First in the World Hungary	75.9 73.5 71.0 70.8 68.2 67.5 65.9 62.8 62.2	Shapes Same as FiW First in the World Australia Lower than FiV England Netherlands Hong Kong Canada United States Czech Republic Japan	77 71.9 V 70.6 70.3 70.1 69.4 67.7 67.4 66.7	Congruence, a Similarity Same as FiW Singapore Korea Hong Kong First in the World England Lower than Fiv Australia Japan United States Canada	88.9 88.8 85.4 85.2 80.9 79.9 79.5 78.5 78.5	Proportionalit Same as FiW Singapore Netherlands First in the World Korea Japan Czech Republic Hungary Hong Kong Lower than FiV Australia	9 63.7 62.7 59.4 58.1 57.7 57.3 55.5 53.3 9	Functions Same as FiW Korea First in the World Hong Kong Singapore Japan Lower than FiV Hungary Netherlands Czech Republic Australia	85.0 78.0 77.8 77.5 77.2 V 71.4 70.4 69.8 69.6	Formulas Higher than Fiv Korea Same as FiW Japan Singapore First in the World Hong Kong Hungary Netherlands Lower than Fiv	84.3 82.6 78.5 76.9 72.4 72.2	Data & Statisti Same as FiW First in the World Lower than FiV Singapore Korea Japan Hong Kong Netherlands United States Canada Czech Republic	86.4 W 80.8 79.8 78.3 75.8 75.4 73.0 68.0 67.1
Volume Higher than Fi' Singapore Korea Same as FiW Netherlands Hong Kong Czech Republic Japan First in the World Hungary Australia	75.9 73.5 71.0 70.8 68.2 67.5 65.9 62.8 62.2	Shapes Same as FiW First in the World Australia Lower than FiV England Netherlands Hong Kong Canada United States Czech Republic Japan Singapore	77 71.9 V 70.6 70.3 70.1 69.4 67.7 67.4 66.7 65.3	Congruence, a Similarity Same as FiW Singapore Korea Hong Kong First in the World England Lower than Fiv Australia Japan United States Canada Czech Republic	88.9 88.8 85.4 85.2 80.9 79.9 79.5 78.5 78.5 77.8	Proportionalit Same as FiW Singapore Netherlands First in the World Korea Japan Czech Republic Hungary Hong Kong Lower than FiV Australia England	63.7 62.7 59.4 58.1 57.7 57.3 55.5 53.3 V	Functions Same as FiW Korea First in the World Hong Kong Singapore Japan Lower than FiV Hungary Netherlands Czech Republic Australia United States	85.0 78.0 77.8 77.5 77.2 V 71.4 69.8 69.6 69.1 67.1	Formulas Higher than Fiv Korea Same as FiW Japan Singapore First in the World Hong Kong Hungary Netherlands Lower than Fiv Czech Republic	84.3 82.6 78.5 76.9 72.4 72.2 V	Data & Statisti Same as FiW First in the World Lower than FiV Singapore Korea Japan Hong Kong Netherlands United States Canada Czech Republic Australia	86.4 W 80.8 79.8 78.3 75.8 75.4 73.0 68.0 67.1 67.1
Volume Higher than Fit Singapore Korea Same as FiW Netherlands Hong Kong Czech Republic Japan First in the World Hungary Australia Lower than Fit	75.9 73.5 71.0 70.8 68.2 67.5 65.9 62.8 62.2 W	Shapes Same as FiW First in the World Australia Lower than FiV England Netherlands Hong Kong Canada United States Czech Republic Japan Singapore New Zealand	77 71.9 V 70.6 70.3 70.1 69.4 67.7 67.4 66.7 65.3 65.3	Congruence, a Similarity Same as FiW Singapore Korea Hong Kong First in the World England Lower than Fiv Australia Japan United States Canada Czech Republic Netherlands	88.9 88.8 85.4 85.2 80.9 W 79.9 79.5 78.5 78.5 77.8 74.1 73.3	Proportionalit Same as FiW Singapore Netherlands First in the World Korea Japan Czech Republic Hungary Hong Kong Lower than FiV Australia England Israel	63.7 62.7 59.4 58.1 57.7 57.3 55.5 53.3 V	Functions Same as FiW Korea First in the World Hong Kong Singapore Japan Lower than FiV Hungary Netherlands Czech Republic Australia United States Canada	85.0 78.0 77.8 77.5 77.2 V 71.4 69.8 69.6 69.1 67.1	Formulas Higher than Fiv Korea Same as FiW Japan Singapore First in the World Hong Kong Hungary Netherlands Lower than Fiv Czech Republic Israel	84.3 82.6 78.5 76.9 72.4 72.2 V 71.0 66.8 65.6	Same as FiW First in the World Lower than FiV Singapore Korea Japan Hong Kong Netherlands United States Canada Czech Republic Australia England	86.4 W 80.8 79.8 75.8 75.4 73.0 68.0 67.1 67.1 65.8
Volume Higher than Fit Singapore Korea Same as FiW Netherlands Hong Kong Czech Republic Japan First in the World Hungary Australia Lower than Fit Canada	75.9 73.5 71.0 70.8 68.2 67.5 65.9 62.8 62.2 W	Shapes Same as FiW First in the World Australia Lower than FiV England Netherlands Hong Kong Canada United States Czech Republic Japan Singapore New Zealand Korea	77 71.9 V 70.6 70.3 70.1 69.4 67.7 67.4 66.7 65.3 65.3	Congruence, a Similarity Same as FiW Singapore Korea Hong Kong First in the World England Lower than Fiv Australia Japan United States Canada Czech Republic Netherlands Hungary	88.9 88.8 85.4 85.2 80.9 W 79.9 79.5 78.5 78.5 77.8 74.1 73.3	Proportionalit Same as FiW Singapore Netherlands First in the World Korea Japan Czech Republic Hungary Hong Kong Lower than FiV Australia England Israel INTERNATIONAL	63.7 62.7 59.4 58.1 57.7 57.3 55.5 53.3 V V V	Functions Same as FiW Korea First in the World Hong Kong Singapore Japan Lower than FiV Hungary Netherlands Czech Republic Australia United States Canada INTERNATIONAL	85.0 78.0 77.8 77.5 77.2 V 71.4 69.8 69.6 69.1 67.1 63.2	Formulas Higher than Five Korea Same as FiWe Japan Singapore First in the World Hong Kong Hungary Netherlands Lower than Five Czech Republic Israel United States	84.3 82.6 78.5 76.9 72.4 72.2 V 71.0 66.8 65.6	Same as FiW First in the World Lower than FiV Singapore Korea Japan Hong Kong Netherlands United States Canada Czech Republic Australia England Israel	86.4 W 80.8 79.8 75.8 75.4 73.0 68.0 67.1 67.1 65.8 63.4
Wolume Higher than Fit Singapore Korea Same as FiW Netherlands Hong Kong Czech Republic Japan First in the World Hungary Australia Lower than Fit Canada INTERNATIONAL	75.9 73.5 71.0 70.8 68.2 67.5 65.9 62.8 62.2 W 59.3 58.8	Shapes Same as FiW First in the World Australia Lower than FiV England Netherlands Hong Kong Canada United States Czech Republic Japan Singapore New Zealand Korea Hungary	77 71.9 V 70.6 70.3 70.1 69.4 67.7 65.3 65.3 65.3 65.1 62.3	Congruence, a Similarity Same as FiW Singapore Korea Hong Kong First in the World England Lower than Fiv Australia Japan United States Canada Czech Republic Netherlands Hungary INTERNATIONAL	88.9 88.8 85.4 85.2 80.9 79.5 78.5 78.5 77.8 74.1 73.3 70.5	Proportionalit Same as FiW Singapore Netherlands First in the World Korea Japan Czech Republic Hungary Hong Kong Lower than FiV Australia England Israel INTERNATIONAL United States	63.7 62.7 59.4 58.1 57.7 57.3 55.5 53.3 V V V V 45.6 45.6 45.5	Functions Same as FiW Korea First in the World Hong Kong Singapore Japan Lower than FiV Hungary Netherlands Czech Republic Australia United States Canada INTERNATIONAL Israel	85.0 78.0 77.8 77.5 77.2 V 71.4 70.4 69.8 69.6 69.1 67.1 63.2 62.6	Formulas Higher than Five Korea Same as Fiwe Japan Singapore First in the World Hong Kong Hungary Netherlands Lower than Five Czech Republic Israel United States INTERNATIONAL	84.3 82.6 78.5 76.9 72.4 72.2 V 71.0 66.8 65.6 62.0	Same as FiW First in the World Lower than FiV Singapore Korea Japan Hong Kong Netherlands United States Canada Czech Republic Australia England Israel New Zealand	86.4 W 80.8 79.8 78.3 75.8 75.4 73.0 68.0 67.1 67.1 65.8 63.4 61.5
Volume Higher than Fit Singapore Korea Same as FiW Netherlands Hong Kong Czech Republic Japan First in the World Hungary Australia Lower than Fit Canada INTERNATIONAL United States	71.0 70.8 68.2 67.5 65.9 62.8 62.2 W 59.3 58.8 58.3	Shapes Same as FiW First in the World Australia Lower than FiV England Netherlands Hong Kong Canada United States Czech Republic Japan Singapore New Zealand Korea Hungary INTERNATIONAL	77 71.9 V 70.6 70.3 70.1 69.4 67.7 67.4 66.7 65.3 65.3 65.1 62.3 61.7	Congruence, a Similarity Same as FiW Singapore Korea Hong Kong First in the World England Lower than Fiv Australia Japan United States Canada Czech Republic Netherlands Hungary INTERNATIONAL New Zealand	88.9 88.8 85.4 85.2 80.9 79.5 78.5 77.8 77.8 74.1 73.3 70.5 69.1	Proportionalit Same as FiW Singapore Netherlands First in the World Korea Japan Czech Republic Hungary Hong Kong Lower than FiV Australia England Israel INTERNATIONAL United States Canada	63.7 62.7 59.4 58.1 57.3 55.3 55.3 46.6 46.0 45.6 45.5 43.8	Functions Same as FiW Korea First in the World Hong Kong Singapore Japan Lower than FiV Hungary Netherlands Czech Republic Australia United States Canada INTERNATIONAL Israel England	85.0 77.8 77.5 77.2 V 71.4 70.4 69.8 69.6 69.1 67.1 63.2 62.6 62.0	Formulas Higher than Five Korea Same as FiWe Japan Singapore First in the World Hong Kong Hungary Netherlands Lower than Five Czech Republic Israel United States INTERNATIONAL Canada	84.3 82.6 78.5 76.9 72.4 72.2 V 71.0 66.8 65.6 62.0 61.4	Data & Statisti Same as FiW First in the World Lower than FiV Singapore Korea Japan Hong Kong Netherlands United States Canada Czech Republic Australia England Israel New Zealand INTERNATIONAL	86.4 W 80.8 79.8 75.8 75.4 73.0 68.0 67.1 67.1 65.8 63.4 61.5 61.8
Volume Higher than Fi' Singapore Korea Same as FiW Netherlands Hong Kong Czech Republic Japan First in the World Hungary Australia Lower than Fiv Canada INTERNATIONAL United States Israel	71.0 70.8 68.2 67.5 65.9 62.2 8 59.3 58.8 58.3 57.1	Shapes Same as FiW First in the World Australia Lower than FiV England Netherlands Hong Kong Canada United States Czech Republic Japan Singapore New Zealand Korea Hungary INTERNATIONAL Israel	77 71.9 V 70.6 70.3 70.1 69.4 67.7 67.4 66.7 65.3 65.3 65.1 62.3 61.7 59.1	Congruence, a Similarity Same as FiW Singapore Korea Hong Kong First in the World England Lower than Fiv Australia Japan United States Canada Czech Republic Netherlands Hungary INTERNATIONAL New Zealand Israel	88.9 88.8 85.4 85.2 80.9 79.5 78.5 78.5 77.8 74.1 73.3 70.5 69.1 69.0	Proportionalit Same as FiW Singapore Netherlands First in the World Korea Japan Czech Republic Hungary Hong Kong Lower than FiV Australia England Israel INTERNATIONAL United States Canada New Zealand	63.7 62.7 59.4 58.1 57.7 57.3 55.3 46.6 46.0 45.6 45.5 43.8 43.7	Functions Same as FiW Korea First in the World Hong Kong Singapore Japan Lower than FiV Hungary Netherlands Czech Republic Australia United States Canada INTERNATIONAL Israel England New Zealand	85.0 78.0 77.8 77.5 77.2 v 71.4 69.8 69.6 69.1 63.2 62.6 62.0 57.5	Formulas Higher than Five Korea Same as FiWe Japan Singapore First in the World Hong Kong Hungary Netherlands Lower than Five Czech Republic Israel United States INTERNATIONAL Canada Australia	84.3 84.3 82.6 78.5 76.9 72.4 71.0 66.8 65.6 62.0 61.4 60.0	Data & Statisti Same as FiW First in the World Lower than FiV Singapore Korea Japan Hong Kong Netherlands United States Canada Czech Republic Australia England Israel New Zealand INTERNATIONAL Hungary	86.4 W 80.8 79.8 78.3 75.8 75.4 73.0 66.0 67.1 65.8 63.4 61.5 61.8 60.3
Volume Higher than Fi' Singapore Korea Same as FiW Netherlands Hong Kong Czech Republic Japan First in the World Hungary Australia Lower than Fiv Canada INTERNATIONAL United States Israel England	71.0 70.8 68.2 67.5 65.9 62.2 8 59.3 58.8 58.3 57.1 55.2	Shapes Same as FiW First in the World Australia Lower than FiV England Netherlands Hong Kong Canada United States Czech Republic Japan Singapore New Zealand Korea Hungary INTERNATIONAL Israel Norway	77 71.9 V 70.6 70.3 70.1 69.4 66.7 65.3 65.3 65.3 65.1 62.3 61.7 59.1 58.3	Congruence, a Similarity Same as FiW Singapore Korea Hong Kong First in the World England Lower than FiV Australia Japan United States Canada Czech Republic Netherlands Hungary INTERNATIONAL New Zealand Israel Thailand	88.9 88.8 85.4 85.2 80.9 79.5 78.5 78.5 77.8 74.1 73.3 70.5 69.1 69.0 66.5	Proportionalit Same as FiW Singapore Netherlands First in the World Korea Japan Czech Republic Hungary Hong Kong Lower than FiV Australia England Israel INTERNATIONAL United States Canada New Zealand Norway	63.7 62.7 59.4 58.1 57.7 57.3 55.3 46.6 46.0 45.6 45.5 43.8 43.7 40.8	Functions Same as FiW Korea First in the World Hong Kong Singapore Japan Lower than FiV Hungary Netherlands Czech Republic Australia United States Canada INTERNATIONAL Israel England New Zealand Norway	85.0 78.0 77.8 77.5 77.2 V 71.4 69.8 69.6 69.1 63.2 62.6 62.0 57.5 54.7	Formulas Higher than Five Korea Same as FiWe Japan Singapore First in the World Hong Kong Hungary Netherlands Lower than Five Czech Republic Israel United States INTERNATIONAL Canada Australia Thailand	84.3 82.6 78.5 76.9 72.4 72.2 V 71.0 66.8 65.6 62.0 61.4 60.0 54.0	Data & Statisti Same as FiW First in the World Lower than FiV Singapore Korea Japan Hong Kong Netherlands United States Canada Czech Republic Australia England Israel New Zealand INTERNATIONAL Hungary Norway	86.4 80.8 79.8 78.3 75.8 75.4 73.0 68.0 67.1 67.1 65.8 63.4 61.5 61.8 60.3 59.5
Volume Higher than Fi' Singapore Korea Same as FiW Netherlands Hong Kong Czech Republic Japan First in the World Hungary Australia Lower than Fi' Canada INTERNATIONAL United States Israel England Norway	71.0 70.8 68.2 67.5 65.9 62.2 W 59.3 58.8 58.3 57.1 55.2 54.5	Shapes Same as FiW First in the World Australia Lower than FiV England Netherlands Hong Kong Canada United States Czech Republic Japan Singapore New Zealand Korea Hungary INTERNATIONAL Israel Norway	77 71.9 V 70.6 70.3 70.1 69.4 66.7 65.3 65.3 65.3 65.1 62.3 61.7 59.1 58.3	Congruence, a Similarity Same as FiW Singapore Korea Hong Kong First in the World England Lower than FiV Australia Japan United States Canada Czech Republic Netherlands Hungary INTERNATIONAL New Zealand Israel Thailand	88.9 88.8 85.4 85.2 80.9 79.5 78.5 78.5 77.8 74.1 73.3 70.5 69.1 69.0 66.5	Proportionalit Same as FiW Singapore Netherlands First in the World Korea Japan Czech Republic Hungary Hong Kong Lower than FiV Australia England Israel INTERNATIONAL United States Canada New Zealand Norway	63.7 62.7 59.4 58.1 57.7 57.3 55.3 46.6 46.0 45.6 45.5 43.8 43.7 40.8	Functions Same as FiW Korea First in the World Hong Kong Singapore Japan Lower than FiV Hungary Netherlands Czech Republic Australia United States Canada INTERNATIONAL Israel England New Zealand Norway	85.0 78.0 77.8 77.5 77.2 V 71.4 69.8 69.6 69.1 63.2 62.6 62.0 57.5 54.7	Formulas Higher than Five Korea Same as FiWe Japan Singapore First in the World Hong Kong Hungary Netherlands Lower than Five Czech Republic Israel United States INTERNATIONAL Canada Australia Thailand New Zealand	84.3 82.6 78.5 76.9 72.4 71.0 65.6 65.6 62.0 61.4 60.0 54.0 50.5	Data & Statisti Same as FiW First in the World Lower than FiV Singapore Korea Japan Hong Kong Netherlands United States Canada Czech Republic Australia England Israel New Zealand INTERNATIONAL Hungary Norway	86.4 80.8 79.8 78.3 75.8 75.4 73.0 68.0 67.1 67.1 65.8 63.4 61.5 61.8 60.3 59.5

SOURCE: U.S. National TIMSS Center, Michigan State University.