

Appendix E.3: Average Percent Correct in the Mathematics Content and Cognitive Domains

SOURCE: IEA's Trends in International Mathematics and Science Study - TIMSS 2015

Country	Overall Mathematics	Mathematics Content Domains				Mathematics Cognitive Domains		
		Number	Algebra	Geometry	Data and Chance	Knowing	Applying	Reasoning
Australia	45 (0.7)	51 (0.8)	35 (0.7)	40 (0.8)	55 (0.7)	54 (0.7)	43 (0.7)	36 (0.8)
Bahrain	35 (0.3)	33 (0.4)	36 (0.4)	31 (0.4)	42 (0.4)	47 (0.4)	32 (0.3)	25 (0.5)
ψ Botswana (9)	23 (0.3)	25 (0.4)	20 (0.3)	20 (0.3)	28 (0.3)	32 (0.3)	21 (0.3)	15 (0.2)
Canada	50 (0.6)	57 (0.7)	40 (0.6)	46 (0.6)	58 (0.6)	58 (0.6)	49 (0.6)	41 (0.6)
ψ Chile	28 (0.5)	30 (0.6)	22 (0.5)	26 (0.5)	37 (0.6)	36 (0.6)	27 (0.5)	21 (0.5)
Chinese Taipei	68 (0.5)	69 (0.6)	67 (0.7)	65 (0.6)	69 (0.5)	74 (0.6)	68 (0.6)	60 (0.6)
ψ Egypt	25 (0.5)	26 (0.6)	25 (0.7)	22 (0.6)	26 (0.5)	36 (0.7)	22 (0.5)	15 (0.5)
England	48 (1.1)	54 (1.3)	37 (1.1)	43 (1.1)	60 (1.1)	56 (1.1)	47 (1.2)	39 (1.1)
Georgia	34 (0.7)	37 (0.8)	33 (0.9)	29 (0.7)	36 (0.6)	45 (0.9)	32 (0.7)	23 (0.7)
Hong Kong SAR	68 (1.1)	72 (1.1)	62 (1.2)	64 (1.1)	72 (1.0)	76 (1.0)	67 (1.1)	57 (1.3)
Hungary	48 (0.9)	52 (1.0)	41 (1.0)	45 (1.0)	55 (0.8)	56 (0.9)	47 (1.0)	38 (1.0)
ψ Iran, Islamic Rep. of	31 (0.9)	32 (1.0)	28 (0.9)	30 (0.9)	36 (0.9)	40 (1.0)	29 (0.9)	23 (0.9)
Ireland	49 (0.7)	60 (0.8)	39 (0.7)	40 (0.7)	58 (0.7)	61 (0.7)	48 (0.7)	38 (0.7)
Israel	47 (0.9)	52 (1.0)	45 (1.0)	39 (0.9)	52 (0.9)	57 (1.0)	46 (1.0)	37 (0.9)
Italy	42 (0.6)	45 (0.7)	33 (0.7)	41 (0.7)	49 (0.6)	50 (0.6)	41 (0.7)	33 (0.7)
Japan	65 (0.5)	66 (0.5)	62 (0.7)	64 (0.6)	71 (0.5)	71 (0.5)	65 (0.5)	57 (0.6)
✗ Jordan	23 (0.4)	22 (0.5)	24 (0.6)	21 (0.4)	26 (0.4)	32 (0.6)	21 (0.4)	15 (0.3)
Kazakhstan	50 (1.4)	51 (1.4)	53 (1.5)	47 (1.5)	48 (1.2)	61 (1.3)	49 (1.5)	39 (1.4)
Korea, Rep. of	69 (0.6)	72 (0.6)	67 (0.7)	67 (0.7)	72 (0.5)	76 (0.5)	69 (0.6)	61 (0.7)
ψ Kuwait	24 (0.8)	25 (1.0)	21 (0.8)	21 (0.7)	30 (0.9)	33 (1.0)	22 (0.9)	14 (0.7)
Lebanon	30 (0.7)	32 (0.8)	31 (0.8)	28 (0.8)	29 (0.7)	44 (0.9)	27 (0.7)	17 (0.6)
Lithuania	46 (0.7)	50 (0.7)	38 (0.8)	43 (0.7)	55 (0.6)	54 (0.7)	47 (0.7)	34 (0.7)
Malaysia	36 (0.8)	41 (0.9)	31 (0.7)	32 (0.7)	41 (0.8)	48 (0.9)	34 (0.8)	25 (0.6)
Malta	43 (0.3)	48 (0.4)	38 (0.4)	37 (0.4)	49 (0.4)	54 (0.3)	41 (0.4)	31 (0.4)
✗ Morocco	22 (0.3)	22 (0.3)	19 (0.3)	23 (0.3)	25 (0.3)	30 (0.4)	20 (0.3)	14 (0.2)
New Zealand	42 (0.8)	47 (0.9)	33 (0.8)	37 (0.7)	53 (0.8)	50 (0.8)	41 (0.8)	34 (0.8)
Norway (9)	46 (0.6)	55 (0.7)	31 (0.5)	39 (0.6)	61 (0.7)	53 (0.6)	46 (0.6)	36 (0.6)
ψ Oman	26 (0.4)	25 (0.4)	26 (0.4)	25 (0.4)	30 (0.4)	35 (0.5)	24 (0.4)	18 (0.3)
ψ Qatar	32 (0.5)	34 (0.7)	30 (0.6)	28 (0.5)	37 (0.5)	42 (0.6)	30 (0.6)	22 (0.5)
Russian Federation	53 (1.3)	56 (1.3)	53 (1.4)	49 (1.4)	52 (1.1)	63 (1.3)	52 (1.3)	40 (1.3)
✗ Saudi Arabia	21 (0.6)	19 (0.6)	20 (0.6)	18 (0.5)	28 (0.6)	28 (0.7)	19 (0.5)	14 (0.5)
Singapore	74 (0.8)	80 (0.8)	70 (0.9)	68 (0.8)	75 (0.7)	82 (0.7)	73 (0.8)	64 (1.0)
Slovenia	47 (0.5)	53 (0.6)	36 (0.5)	45 (0.6)	56 (0.6)	58 (0.6)	45 (0.5)	37 (0.6)
✗ South Africa (9)	21 (0.7)	21 (0.8)	20 (0.7)	19 (0.5)	26 (0.7)	30 (0.9)	19 (0.6)	15 (0.5)
Sweden	43 (0.7)	50 (0.8)	34 (0.8)	35 (0.6)	53 (0.8)	49 (0.7)	43 (0.7)	35 (0.7)
Thailand	30 (1.0)	32 (1.1)	25 (1.0)	27 (0.9)	36 (0.9)	37 (1.1)	28 (1.0)	22 (0.9)
Turkey	36 (1.0)	36 (1.1)	32 (1.0)	34 (1.0)	45 (1.0)	43 (1.0)	35 (1.0)	30 (1.0)
United Arab Emirates	37 (0.4)	39 (0.5)	36 (0.4)	31 (0.4)	42 (0.5)	49 (0.5)	34 (0.4)	27 (0.4)
United States	48 (0.8)	53 (0.9)	45 (0.8)	40 (0.8)	56 (0.8)	60 (0.8)	46 (0.8)	37 (0.8)
International Avg.	41 (0.1)	44 (0.1)	37 (0.1)	37 (0.1)	47 (0.1)	50 (0.1)	40 (0.1)	32 (0.1)

Benchmarking Participants

✗ Buenos Aires, Argentina	23 (0.7)	28 (0.8)	17 (0.6)	18 (0.6)	28 (0.8)	31 (0.8)	21 (0.7)	15 (0.5)
Ontario, Canada	49 (0.8)	55 (0.9)	38 (0.9)	45 (0.7)	58 (0.8)	56 (0.8)	47 (0.7)	41 (0.9)
Quebec, Canada	54 (1.0)	63 (1.2)	45 (0.9)	49 (1.1)	60 (1.2)	63 (1.0)	54 (1.1)	42 (1.1)
Norway (8)	39 (0.5)	48 (0.6)	23 (0.5)	34 (0.5)	55 (0.7)	46 (0.5)	39 (0.5)	30 (0.5)
Abu Dhabi, UAE	32 (0.9)	34 (1.0)	31 (0.9)	27 (0.9)	37 (1.0)	44 (0.9)	29 (1.0)	23 (0.9)
Dubai, UAE	47 (0.5)	50 (0.6)	46 (0.5)	40 (0.6)	52 (0.5)	59 (0.5)	44 (0.6)	37 (0.6)
Florida, US	43 (1.5)	47 (1.8)	40 (1.6)	34 (1.3)	48 (1.6)	54 (1.7)	40 (1.6)	32 (1.3)

✗ Reservations about reliability because the percentage of students with achievement too low for estimation exceeds 25%.

ψ Reservations about reliability because the percentage of students with achievement too low for estimation exceeds 15% but does not exceed 25%.

() Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.