

Appendix G.3: Standard Deviations of Mathematics Achievement

Country	Overall		Girls		Boys	
	Mean	Standard Deviation	Mean	Standard Deviation	Mean	Standard Deviation
Australia	517 (3.1)	83 (1.8)	513 (3.1)	81 (1.9)	522 (3.9)	85 (2.3)
Bahrain	451 (1.6)	88 (1.1)	459 (1.7)	82 (1.5)	443 (2.3)	93 (1.5)
Belgium (Flemish)	546 (2.1)	61 (1.2)	543 (2.4)	60 (1.5)	549 (2.4)	61 (1.4)
Bulgaria	524 (5.3)	83 (2.6)	527 (5.7)	82 (2.8)	522 (5.1)	83 (2.9)
Canada	511 (2.3)	75 (1.9)	506 (2.5)	73 (1.9)	515 (2.6)	76 (2.1)
Chile	459 (2.4)	73 (1.5)	458 (2.8)	71 (1.8)	459 (3.0)	75 (1.7)
Chinese Taipei	597 (1.9)	71 (1.2)	594 (2.2)	67 (1.5)	599 (2.3)	74 (1.6)
Croatia	502 (1.8)	66 (1.0)	496 (2.1)	64 (1.4)	508 (2.3)	68 (1.8)
Cyprus	523 (2.7)	81 (1.2)	520 (2.9)	77 (1.4)	526 (3.1)	84 (1.7)
Czech Republic	528 (2.2)	70 (1.3)	525 (3.0)	69 (1.8)	532 (2.5)	70 (1.6)
Denmark	539 (2.7)	75 (1.6)	536 (3.1)	74 (2.0)	542 (3.0)	76 (2.1)
England	546 (2.8)	84 (2.2)	543 (3.0)	80 (2.4)	549 (3.3)	87 (2.6)
Finland	535 (2.0)	67 (1.2)	540 (2.3)	64 (1.3)	531 (2.6)	69 (1.8)
France	488 (2.9)	74 (1.3)	485 (3.2)	73 (1.8)	491 (3.2)	75 (1.4)
Georgia	463 (3.6)	87 (2.4)	465 (3.9)	84 (2.7)	461 (4.4)	89 (3.1)
Germany	522 (2.0)	65 (1.2)	520 (2.4)	64 (1.6)	523 (2.3)	66 (1.6)
Hong Kong SAR	615 (2.9)	66 (1.7)	609 (3.8)	64 (2.1)	619 (2.8)	67 (2.0)
Hungary	529 (3.2)	88 (2.3)	526 (3.4)	86 (2.3)	532 (3.8)	90 (3.0)
Indonesia	397 (3.7)	89 (1.8)	403 (4.0)	87 (2.1)	393 (3.9)	91 (2.2)
Iran, Islamic Rep. of	431 (3.2)	102 (2.3)	437 (4.5)	97 (2.6)	426 (4.5)	106 (3.1)
Ireland	547 (2.1)	73 (1.2)	545 (2.6)	71 (1.7)	549 (2.9)	75 (1.7)
Italy	507 (2.6)	72 (1.7)	497 (2.7)	70 (2.0)	517 (3.0)	72 (2.2)
Japan	593 (2.0)	69 (1.0)	593 (2.0)	66 (1.0)	593 (2.5)	72 (1.5)
Jordan	388 (3.1)	107 (1.9)	399 (3.3)	94 (1.9)	379 (4.9)	116 (2.7)
Kazakhstan	544 (4.5)	82 (2.1)	546 (4.6)	82 (2.1)	543 (4.8)	83 (2.6)
Korea, Rep. of	608 (2.2)	67 (1.4)	604 (2.3)	65 (1.6)	612 (2.5)	69 (1.7)
Kuwait	353 (4.6)	104 (2.0)	359 (5.4)	98 (2.3)	347 (5.6)	110 (2.5)
Lithuania	535 (2.5)	71 (1.5)	537 (2.8)	68 (1.8)	534 (3.1)	74 (2.1)
Morocco	377 (3.4)	96 (1.7)	378 (3.5)	95 (1.9)	377 (3.9)	97 (1.9)
Netherlands	530 (1.7)	56 (1.0)	526 (1.8)	55 (1.2)	534 (2.2)	57 (1.3)
New Zealand	491 (2.3)	90 (1.5)	489 (2.8)	86 (1.9)	492 (2.6)	93 (1.6)
Northern Ireland	570 (2.9)	86 (1.7)	569 (3.8)	85 (2.5)	571 (3.1)	86 (2.2)
Norway (5)	549 (2.5)	71 (1.4)	551 (2.6)	68 (1.8)	547 (3.1)	73 (1.9)
Oman	425 (2.5)	101 (1.3)	436 (3.0)	98 (1.7)	415 (2.8)	102 (1.7)
Poland	535 (2.1)	71 (1.1)	534 (2.3)	68 (1.5)	536 (2.7)	74 (1.6)
Portugal	541 (2.2)	72 (1.2)	536 (2.4)	70 (1.5)	547 (2.5)	74 (1.8)
Qatar	439 (3.4)	97 (2.3)	440 (4.1)	91 (2.8)	438 (4.9)	102 (3.1)
Russian Federation	564 (3.4)	73 (2.4)	564 (3.7)	73 (2.5)	564 (3.7)	73 (2.6)
Saudi Arabia	383 (4.1)	92 (2.2)	405 (4.4)	81 (2.2)	363 (6.5)	97 (3.8)
Serbia	518 (3.5)	87 (2.8)	520 (3.7)	82 (2.2)	517 (4.7)	91 (4.6)
Singapore	618 (3.8)	86 (2.6)	620 (3.9)	84 (2.7)	616 (4.3)	88 (2.9)
Slovak Republic	498 (2.5)	80 (1.7)	493 (3.0)	79 (2.3)	504 (2.6)	80 (1.7)
Slovenia	520 (1.9)	69 (1.5)	518 (2.1)	65 (1.7)	522 (2.4)	72 (1.7)
South Africa (5)	376 (3.5)	102 (2.0)	384 (3.8)	99 (2.5)	368 (4.4)	105 (2.6)
Spain	505 (2.5)	69 (1.3)	499 (2.7)	66 (1.5)	511 (2.7)	71 (1.6)
Sweden	519 (2.8)	69 (1.7)	519 (3.2)	69 (2.0)	518 (3.2)	69 (2.1)
Turkey	483 (3.1)	95 (2.5)	482 (3.2)	92 (2.7)	484 (3.5)	99 (2.8)
United Arab Emirates	452 (2.4)	105 (1.5)	453 (3.9)	101 (1.9)	450 (3.4)	109 (2.4)
United States	539 (2.3)	81 (1.3)	536 (2.3)	80 (1.2)	543 (2.6)	83 (1.7)

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

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

**Appendix G.3: Standard Deviations of Mathematics Achievement
(Continued)**

Country	Overall		Girls		Boys	
	Mean	Standard Deviation	Mean	Standard Deviation	Mean	Standard Deviation
Benchmarking Participants						
Buenos Aires, Argentina	432 (2.9)	81 (1.4)	430 (3.5)	80 (1.6)	435 (2.9)	81 (1.7)
Ontario, Canada	512 (2.3)	72 (1.4)	509 (2.6)	72 (1.8)	516 (2.8)	73 (1.5)
Quebec, Canada	536 (4.0)	66 (1.7)	531 (3.9)	64 (1.8)	541 (4.8)	68 (2.1)
Norway (4)	493 (2.3)	72 (2.0)	492 (2.9)	69 (2.5)	494 (3.0)	74 (2.4)
Abu Dhabi, UAE	419 (4.7)	108 (3.2)	422 (8.0)	103 (3.7)	417 (6.6)	112 (3.8)
Dubai, UAE	511 (1.4)	94 (1.1)	510 (3.1)	89 (2.3)	512 (2.7)	99 (2.2)
Florida, US	546 (4.7)	79 (2.4)	548 (4.9)	77 (2.7)	544 (5.5)	81 (2.6)

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