

## Appendix F.2: Standard Deviations of Reading Achievement

Country	Overall		Girls		Boys	
	Mean	Standard Deviation	Mean	Standard Deviation	Mean	Standard Deviation
Australia	544 (2.5)	84 (1.6)	555 (2.6)	79 (1.8)	534 (3.0)	86 (1.9)
Austria	541 (2.4)	65 (1.4)	544 (2.7)	64 (1.4)	538 (2.7)	67 (1.8)
Azerbaijan	472 (4.2)	86 (2.8)	479 (4.3)	84 (3.2)	466 (4.5)	86 (2.9)
Bahrain	446 (2.3)	98 (1.5)	468 (2.8)	86 (1.5)	424 (3.5)	105 (2.3)
Belgium (Flemish)	525 (1.9)	61 (0.9)	530 (2.1)	59 (1.2)	520 (2.3)	61 (1.1)
Belgium (French)	497 (2.6)	69 (1.3)	503 (2.5)	67 (1.5)	492 (3.4)	70 (1.8)
Bulgaria	552 (4.2)	85 (2.7)	559 (4.9)	84 (3.2)	544 (4.3)	85 (2.9)
Canada	543 (1.8)	76 (1.3)	549 (2.2)	75 (1.9)	537 (2.1)	76 (1.3)
Chile	494 (2.5)	79 (1.3)	501 (2.9)	76 (1.6)	487 (3.2)	80 (1.7)
Chinese Taipei	559 (2.0)	64 (1.0)	563 (2.2)	62 (1.6)	555 (2.3)	66 (1.4)
Czech Republic	543 (2.1)	68 (2.0)	549 (2.2)	65 (2.0)	538 (2.6)	71 (2.2)
Denmark	547 (2.1)	68 (1.5)	554 (2.6)	68 (1.8)	541 (2.7)	67 (1.6)
Egypt	330 (5.6)	124 (2.8)	349 (5.6)	115 (2.8)	312 (6.6)	129 (3.4)
England	559 (1.9)	79 (1.2)	566 (2.2)	78 (1.8)	551 (2.4)	80 (1.3)
Finland	566 (1.8)	67 (1.6)	577 (1.9)	64 (1.6)	555 (2.3)	68 (2.1)
France	511 (2.2)	69 (1.4)	515 (2.6)	67 (1.6)	507 (2.5)	71 (1.8)
Georgia	488 (2.8)	79 (1.6)	498 (2.7)	75 (1.7)	479 (3.6)	81 (2.2)
Germany	537 (3.2)	78 (3.2)	543 (3.2)	76 (3.1)	532 (3.7)	79 (4.1)
Hong Kong SAR	569 (2.7)	64 (1.5)	573 (2.9)	61 (1.6)	564 (3.1)	66 (2.1)
Hungary	554 (2.9)	75 (1.6)	561 (3.4)	75 (2.1)	548 (3.1)	74 (2.2)
Iran, Islamic Rep. of	428 (4.0)	108 (2.8)	452 (4.5)	98 (3.4)	407 (5.1)	111 (3.4)
Ireland	567 (2.5)	74 (1.5)	572 (2.9)	73 (1.8)	561 (3.3)	74 (2.3)
Israel	530 (2.5)	90 (1.8)	537 (2.9)	85 (2.3)	524 (3.4)	93 (2.4)
Italy	548 (2.2)	65 (1.4)	552 (2.7)	63 (1.6)	544 (2.4)	67 (1.8)
Kazakhstan	536 (2.5)	63 (1.4)	542 (2.8)	62 (1.6)	531 (2.5)	63 (1.6)
Kuwait	393 (4.1)	105 (2.5)	410 (4.8)	96 (2.8)	376 (6.4)	112 (3.6)
Latvia	558 (1.7)	62 (1.3)	566 (2.1)	61 (1.5)	549 (2.0)	63 (1.6)
Lithuania	548 (2.6)	69 (1.7)	558 (2.7)	68 (1.8)	538 (3.3)	69 (2.2)
Macao SAR	546 (1.0)	66 (1.0)	546 (1.6)	66 (1.4)	545 (1.7)	66 (1.3)
Malta	452 (1.8)	90 (1.5)	463 (2.6)	86 (1.7)	442 (2.2)	92 (2.1)
Morocco	358 (3.9)	107 (1.7)	372 (4.0)	105 (2.3)	344 (4.4)	107 (1.9)
Netherlands	545 (1.7)	60 (1.2)	550 (1.7)	58 (1.2)	540 (2.3)	62 (1.9)
New Zealand	523 (2.2)	91 (1.8)	533 (2.4)	88 (2.1)	512 (3.0)	92 (2.3)
Northern Ireland	565 (2.2)	80 (1.3)	574 (2.8)	77 (1.8)	555 (2.8)	83 (2.0)
Norway (5)	559 (2.3)	65 (1.3)	570 (2.6)	63 (1.7)	548 (2.6)	66 (1.7)
Oman	418 (3.3)	106 (1.7)	442 (3.2)	95 (1.9)	395 (3.9)	111 (2.0)
Poland	565 (2.1)	72 (1.1)	574 (2.5)	69 (1.7)	556 (2.6)	74 (1.6)
Portugal	528 (2.3)	65 (1.4)	529 (2.7)	65 (1.6)	527 (2.5)	65 (1.6)
Qatar	442 (1.8)	110 (1.3)	460 (1.9)	102 (1.8)	424 (3.4)	115 (2.4)
Russian Federation	581 (2.2)	66 (1.3)	588 (2.2)	65 (1.4)	574 (2.6)	67 (1.7)
Saudi Arabia	430 (4.2)	98 (2.4)	464 (5.4)	88 (3.2)	399 (5.8)	95 (2.5)
Singapore	576 (3.2)	80 (2.1)	585 (3.5)	77 (2.1)	568 (3.4)	82 (2.6)
Slovak Republic	535 (3.1)	81 (3.6)	539 (3.7)	80 (4.2)	530 (3.1)	82 (3.5)
Slovenia	542 (2.0)	72 (1.1)	552 (2.3)	69 (1.7)	533 (2.6)	74 (1.5)
South Africa	320 (4.4)	106 (2.6)	347 (4.0)	99 (2.6)	295 (5.1)	107 (3.1)
Spain	528 (1.7)	65 (1.4)	532 (1.4)	63 (1.0)	524 (2.7)	67 (2.2)
Sweden	555 (2.4)	67 (1.2)	563 (2.7)	65 (1.6)	548 (2.6)	68 (1.5)
Trinidad and Tobago	479 (3.3)	94 (1.9)	490 (3.8)	88 (2.4)	468 (4.4)	98 (2.7)
United Arab Emirates	450 (3.2)	111 (1.6)	465 (4.2)	102 (2.4)	436 (4.5)	116 (1.9)
United States	549 (3.1)	78 (1.3)	553 (3.2)	77 (1.5)	545 (3.6)	78 (1.7)

SOURCE: IEA's Progress in International Reading Literacy Study – PIRLS 2016

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

**Appendix F.2: Standard Deviations of Reading Achievement  
(Continued)**

Country	Overall		Girls		Boys	
	Mean	Standard Deviation	Mean	Standard Deviation	Mean	Standard Deviation
<b>Benchmarking Participants</b>						
Buenos Aires, Argentina	480 (3.1)	83 (1.8)	485 (3.7)	82 (2.4)	475 (3.4)	82 (1.9)
Ontario, Canada	544 (3.2)	77 (1.5)	550 (3.6)	76 (2.2)	538 (3.8)	77 (1.9)
Quebec, Canada	547 (2.8)	65 (2.0)	552 (3.3)	65 (2.4)	542 (3.1)	65 (2.0)
Denmark (3)	501 (2.7)	85 (1.7)	511 (3.3)	83 (2.3)	491 (3.0)	85 (2.3)
Norway (4)	517 (2.0)	70 (1.0)	526 (2.4)	66 (1.2)	508 (2.1)	73 (1.6)
Moscow City, Russian Fed.	612 (2.2)	62 (1.1)	620 (2.3)	61 (1.2)	604 (2.6)	62 (1.6)
Eng/Afr/Zulu - RSA (5)	406 (6.0)	103 (2.7)	421 (6.0)	97 (3.0)	391 (6.5)	106 (2.9)
Andalusia, Spain	525 (2.1)	64 (1.4)	526 (2.8)	64 (1.9)	523 (2.2)	64 (1.6)
Madrid, Spain	549 (2.0)	60 (1.0)	553 (2.4)	59 (1.7)	545 (2.6)	60 (1.3)
Abu Dhabi, UAE	414 (4.7)	109 (2.4)	435 (7.3)	103 (3.8)	396 (6.4)	111 (2.5)
Dubai, UAE	515 (1.9)	98 (1.4)	522 (3.6)	96 (2.3)	509 (2.8)	99 (2.4)

SOURCE: IEA's Progress in International Reading Literacy Study - PIRLS 2016