

Exhibit 4.4: Parents Like Reading

Young students who see adults and older children reading or using texts in different ways are learning to appreciate and use materials. Exhibit 4.4 presents the PIRLS 2016 *Parents Like Reading* scale. As described in the exhibit, students' parents were asked a series of questions about their reading enjoyment and students were scored according to their parents' responses. Exhibit 4.4 shows students' average reading achievement in relation to how much their parents like to read. Across the PIRLS 2016 countries, the students whose parents **Very Much Like** to read (32%) had higher average achievement than the 51 percent of the students whose parents only like to read **Somewhat** (535 vs. 508). In turn, the students with parents who **Do Not Like** to read (17%) had the lowest achievement (488).

Compared to PIRLS 2011, parental attitudes toward reading in 2016 were less positive on average in 31 countries, and more positive in only 2 countries.

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Students Categorized by Parents' Reports

Students were scored on the *Parents Like Reading* scale according to their parents' responses to eight statements about reading as well as how often they read for enjoyment. Students whose parents **Very Much Like** reading had a score on the scale of at least 10.5, which corresponds to their parents "agreeing a lot" with four of the eight statements and "agreeing a little" with the other four, as well as reading for enjoyment "every day or almost every day," on average. Students whose parents **Do Not Like** reading had a score no higher than 8.1, which corresponds to their parents "disagreeing a little" with four of the eight statements and "agreeing a little" with the other four, as well as reading for enjoyment only "once or twice a month," on average. All other students had parents who **Somewhat Like** reading.

Country	Very Much Like		Somewhat Like		Do Not Like		Average Scale Score	Difference in Average Scale Score from 2011	
	Percent of Students	Average Achievement	Percent of Students	Average Achievement	Percent of Students	Average Achievement			
Ireland	47 (1.1)	588 (2.9)	40 (1.0)	560 (2.9)	13 (0.7)	544 (5.2)	10.3 (0.05)	-0.4 (0.07)	↕
Netherlands	46 (1.5)	566 (2.8)	39 (1.2)	548 (3.1)	16 (0.9)	525 (4.3)	10.0 (0.05)	-0.4 (0.08)	↕
Malta	45 (0.8)	471 (2.3)	42 (0.9)	451 (2.6)	13 (0.5)	439 (3.9)	10.2 (0.03)	-0.4 (0.05)	↕
Denmark	44 (1.1)	564 (2.3)	38 (1.0)	542 (2.7)	17 (0.7)	530 (3.6)	10.1 (0.05)	-0.6 (0.06)	↕
Sweden	44 (1.1)	576 (2.9)	42 (1.1)	551 (3.0)	13 (0.8)	529 (4.4)	10.1 (0.05)	-0.8 (0.07)	↕
Azerbaijan	44 (1.3)	481 (5.1)	46 (1.1)	470 (4.4)	10 (0.9)	453 (6.8)	10.4 (0.06)	0.7 (0.08)	⬆
Norway (5)	42 (1.0)	574 (2.6)	44 (0.9)	556 (2.5)	15 (0.9)	532 (3.9)	10.1 (0.05)	-	-
Trinidad and Tobago	41 (1.0)	499 (3.6)	49 (0.9)	478 (4.3)	10 (0.6)	468 (6.1)	10.2 (0.04)	-0.5 (0.06)	↕
Finland	41 (1.0)	585 (2.2)	43 (0.9)	563 (2.5)	16 (0.7)	542 (3.4)	10.0 (0.05)	-0.5 (0.07)	↕
Spain	41 (0.8)	545 (2.1)	43 (0.7)	524 (2.3)	16 (0.7)	512 (2.5)	10.0 (0.04)	0.0 (0.05)	-
Israel	40 (1.1)	554 (3.1)	47 (0.9)	522 (3.2)	13 (0.6)	519 (6.4)	10.0 (0.04)	-0.5 (0.06)	↕
Austria	40 (1.1)	564 (2.3)	42 (0.8)	534 (2.7)	18 (0.8)	516 (3.7)	9.9 (0.05)	-0.4 (0.08)	↕
Canada	40 (0.8)	566 (2.1)	46 (0.7)	540 (2.5)	15 (0.5)	531 (3.3)	10.0 (0.03)	-0.5 (0.05)	↕
Bulgaria	39 (1.4)	587 (3.1)	43 (1.4)	548 (4.2)	19 (1.7)	493 (9.1)	9.8 (0.09)	-0.2 (0.13)	-
Hungary	38 (1.4)	583 (3.0)	45 (1.2)	547 (3.3)	17 (1.0)	516 (4.6)	9.8 (0.06)	-0.1 (0.08)	-
Czech Republic	37 (1.0)	565 (2.4)	45 (0.7)	540 (2.2)	18 (0.8)	514 (4.2)	9.8 (0.05)	-0.2 (0.06)	↕
Italy	37 (1.0)	566 (2.5)	47 (0.9)	546 (2.7)	16 (0.8)	530 (3.8)	9.9 (0.04)	0.1 (0.06)	-
Germany	36 (1.1)	578 (2.7)	44 (0.9)	540 (3.3)	20 (0.9)	509 (5.0)	9.7 (0.05)	-0.4 (0.08)	↕
Poland	35 (0.8)	581 (2.9)	50 (0.8)	561 (2.3)	14 (0.8)	540 (4.3)	9.9 (0.04)	-	-
Slovak Republic	35 (1.0)	566 (2.6)	46 (1.0)	532 (3.2)	19 (1.0)	489 (9.5)	9.6 (0.06)	-0.3 (0.08)	↕
Portugal	35 (0.9)	546 (3.0)	50 (0.9)	522 (2.4)	15 (0.7)	510 (5.4)	9.8 (0.04)	0.2 (0.05)	⬆
Georgia	32 (1.0)	512 (2.9)	60 (1.1)	482 (2.9)	8 (0.8)	460 (11.3)	9.9 (0.04)	-0.2 (0.06)	↕
Belgium (French)	29 (0.9)	526 (2.8)	48 (0.9)	495 (3.2)	23 (0.8)	473 (3.6)	9.4 (0.04)	-0.4 (0.07)	↕
Belgium (Flemish)	28 (0.8)	546 (2.0)	48 (0.8)	527 (2.1)	24 (0.7)	509 (2.9)	9.3 (0.04)	-	-
Lithuania	27 (1.0)	572 (3.2)	48 (1.3)	546 (3.5)	25 (1.1)	530 (3.9)	9.3 (0.04)	-0.3 (0.06)	↕
Slovenia	27 (0.9)	571 (3.0)	58 (1.1)	539 (2.2)	16 (0.7)	517 (3.6)	9.5 (0.03)	-0.3 (0.05)	↕
Bahrain	26 (0.7)	471 (3.2)	60 (0.9)	444 (2.9)	14 (0.6)	417 (4.3)	9.6 (0.02)	-	-
Kazakhstan	26 (1.1)	545 (3.2)	67 (1.1)	533 (2.9)	7 (0.5)	531 (4.7)	9.9 (0.04)	-	-
Latvia	26 (0.8)	579 (2.6)	62 (0.9)	557 (2.2)	22 (0.8)	541 (3.3)	9.4 (0.04)	-	-
Kuwait	25 (1.0)	425 (6.1)	57 (1.0)	395 (4.5)	18 (0.8)	378 (7.5)	9.5 (0.04)	-	-
Russian Federation	25 (0.8)	602 (2.5)	56 (0.8)	578 (2.3)	20 (0.7)	560 (3.6)	9.4 (0.03)	-0.2 (0.05)	↕
Singapore	25 (0.6)	603 (3.3)	57 (0.7)	572 (3.2)	18 (0.6)	561 (4.0)	9.4 (0.02)	-0.3 (0.03)	↕
Iran, Islamic Rep. of	25 (1.1)	459 (4.9)	62 (1.1)	429 (3.5)	14 (1.0)	374 (11.2)	9.5 (0.05)	-0.3 (0.06)	↕
South Africa	24 (0.7)	359 (7.0)	63 (1.1)	322 (5.3)	13 (0.9)	307 (7.0)	9.7 (0.03)	-0.2 (0.05)	↕
Qatar	24 (0.7)	489 (3.3)	62 (0.8)	441 (2.0)	14 (0.4)	428 (4.3)	9.5 (0.02)	-0.2 (0.05)	↕
France	22 (0.8)	539 (3.2)	56 (0.8)	513 (2.2)	21 (0.9)	491 (4.0)	9.3 (0.04)	-0.2 (0.06)	↕
United Arab Emirates	22 (0.5)	496 (3.6)	65 (0.5)	445 (3.4)	13 (0.4)	436 (4.5)	9.5 (0.02)	-0.1 (0.03)	↕
Morocco	22 (0.9)	397 (4.3)	47 (1.5)	365 (4.4)	31 (1.8)	330 (6.0)	9.0 (0.06)	-0.3 (0.10)	↕
Chile	21 (0.8)	529 (3.3)	52 (0.9)	491 (2.8)	27 (0.9)	480 (3.7)	9.2 (0.04)	-	-
Oman	21 (0.5)	450 (4.7)	67 (0.6)	418 (3.3)	12 (0.5)	380 (5.3)	9.5 (0.02)	0.0 (0.03)	-
Saudi Arabia	21 (0.9)	454 (4.7)	62 (1.0)	428 (4.8)	17 (0.8)	414 (6.2)	9.4 (0.04)	-0.2 (0.06)	↕
Chinese Taipei	19 (0.8)	584 (2.9)	61 (0.7)	556 (2.5)	20 (0.8)	548 (2.8)	9.2 (0.03)	-0.2 (0.05)	↕
Hong Kong SAR	17 (0.8)	580 (3.1)	61 (0.9)	569 (3.2)	22 (0.8)	562 (3.5)	9.1 (0.03)	-0.2 (0.04)	↕
Macao SAR	17 (0.6)	563 (2.4)	62 (0.8)	544 (1.4)	22 (0.6)	538 (2.7)	9.1 (0.02)	-	-
Egypt	13 (1.0)	385 (8.1)	54 (1.6)	345 (5.0)	33 (1.8)	286 (8.4)	8.7 (0.07)	-	-
England	--	--	--	--	--	--	--	--	--
United States	--	--	--	--	--	--	--	--	--
Northern Ireland	x 49 (1.5)	602 (3.9)	36 (1.5)	577 (5.1)	15 (1.0)	568 (6.0)	10.3 (0.07)	-0.4 (0.08)	↕
Australia	x 48 (1.4)	582 (3.5)	40 (1.3)	551 (3.6)	12 (0.9)	535 (5.3)	10.3 (0.06)	-0.4 (0.09)	↕
New Zealand	x 47 (1.6)	567 (3.0)	40 (1.5)	524 (4.0)	13 (0.7)	511 (6.2)	10.3 (0.06)	-0.6 (0.07)	↕
International Avg.	32 (0.1)	535 (0.5)	51 (0.1)	508 (0.5)	17 (0.1)	488 (0.8)			

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

This PIRLS questionnaire scale was established in 2011 based on the combined response distribution of all countries that participated in PIRLS 2011. To provide a point of reference for country comparisons, the scale centerpoint of 10 was located at the mean of the combined distribution. The units of the scale were chosen so that 2 scale score points corresponded to the standard deviation of the distribution.

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

A dash (-) indicates comparable data not available. A tilde (~) indicates insufficient data to report achievement.

An "r" indicates data are available for at least 70% but less than 85% of the students. An "s" indicates data are available for at least 50% but less than 70% of the students.

An "x" indicates data are available for less than 50% of the students—interpret with caution.

Significantly higher than 2011 ⬆
Significantly lower than 2011 ↕

Exhibit 4.4: Parents Like Reading (Continued)

Country	Very Much Like		Somewhat Like		Do Not Like		Average Scale Score	Difference in Average Scale Score from 2011
	Percent of Students	Average Achievement	Percent of Students	Average Achievement	Percent of Students	Average Achievement		
Benchmarking Participants								
Madrid, Spain	48 (1.2)	562 (2.3)	41 (1.0)	544 (2.0)	12 (0.6)	534 (4.5)	10.4 (0.05)	--
Ontario, Canada	42 (1.2)	567 (3.8)	45 (1.0)	540 (3.7)	13 (0.8)	533 (4.7)	10.1 (0.06)	-0.5 (0.08) ▼
Denmark (3)	42 (1.2)	518 (3.4)	41 (1.1)	497 (3.2)	17 (0.7)	480 (4.2)	10.0 (0.05)	--
Andalusia, Spain	41 (1.0)	543 (1.9)	42 (0.8)	524 (2.7)	17 (1.0)	504 (3.8)	10.0 (0.05)	0.2 (0.07)
Norway (4)	40 (0.9)	536 (2.5)	45 (0.9)	513 (2.2)	15 (0.6)	489 (3.5)	9.9 (0.03)	-0.6 (0.08) ▼
Moscow City, Russian Fed.	38 (1.1)	626 (2.5)	51 (0.9)	606 (2.4)	10 (0.6)	586 (4.0)	10.0 (0.04)	--
Buenos Aires, Argentina	34 (1.1)	515 (3.6)	51 (1.1)	475 (3.9)	15 (0.8)	474 (5.7)	9.9 (0.05)	--
Quebec, Canada	31 (1.3)	564 (3.3)	51 (1.2)	547 (3.5)	17 (1.0)	536 (3.7)	9.6 (0.06)	-0.3 (0.08) ▼
Eng/Afr/Zulu - RSA (5)	30 (1.1)	446 (7.5)	58 (1.1)	406 (7.9)	12 (0.6)	401 (9.9)	9.8 (0.04)	--
Dubai, UAE	28 (0.6)	552 (2.7)	59 (0.8)	508 (2.4)	12 (0.6)	497 (3.5)	9.7 (0.02)	-0.2 (0.03) ▼
Abu Dhabi, UAE	21 (0.8)	461 (6.7)	66 (1.0)	414 (4.3)	13 (0.7)	400 (7.0)	9.4 (0.03)	-0.1 (0.05) ▼

Significantly higher than 2011 ▲
Significantly lower than 2011 ▼

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

