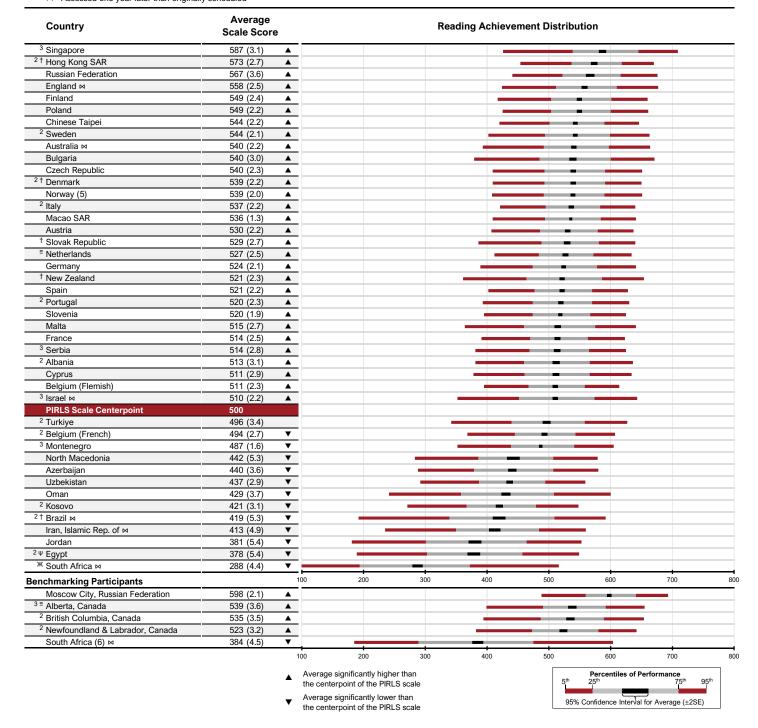
Exhibit 1.1: Average Reading Achievement and Scale Score Distributions

Assessed Fourth Grade Students at the End of the School Year

⋈ Assessed one year later than originally scheduled





The PIRLS achievement scale was established in 2001 based on the combined achievement distribution of all countries that participated in PIRLS 2001. To provide a point of reference for country comparisons, the scale centerpoint of 500 was located at the mean of the combined achievement distribution. The units of the scale were chosen so that 100 scale score points corresponded to the standard deviation of the distribution.

South Africa continued investigating its PIRLS 2021 results at the time of publication and will deal with the findings through its national report.



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

See Appendix A.2 for population coverage notes 1, 2, and 3. See Appendix A.5 for sampling guidelines and sampling participation notes †, ‡, and ≡.

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

X Reservations about reliability because the percentage of students with achievement too low for estimation exceeds 25%. Issues identified in Albania's data quality led to reduced comparability and framework coverage

Exhibit 1.2: Significance of Differences Between Countries' Average Reading Achievement

Assessed Fourth Grade Students at the End of the School Year

⋈ Assessed one year later than originally scheduled



Read across the row for a country to compare performance with the countries listed along the top of the chart. If no statistically significant difference was found, no symbol is present. If the difference is significant (p < 0.05), a symbol indicates whether the estimated achievement of the country in the row is higher (\triangle) than that of the comparison

																								- 1								4		4
Country	Average Scale Score	Singapore	Hong Kong SAR	Russian Federation	England ⋈	Finland	Poland	Chinese Taipei	Sweden	Australia ⋈	Bulgaria	Czecn Kepublic	Denmark	Norway (5)	Italy	Macao SAR	Austria	Slovak Republic	Netnerlands	Germany	New Zealand	Spain	Portugal	Slovenia	Malta	France	Serbia	Albania	Cyprus	Belgium (Flemish)	Israel ⋈	Turkiye	Belgium (French)	Montenearo
Singapore	587 (3.1)	- 07	<u></u>	<u>L</u>	▲	<u>L</u>	<u> </u>	<u> </u>	A	<u> </u>			A .	<u> </u>	<u> </u>		A .	A .		د ا	<u> </u>	A	<u> </u>	A	<u>_</u>	<u>L</u>	A	<u> </u>			<u></u>	-	<u> </u>	4
Hong Kong SAR	573 (2.7)	•			\blacktriangle	\blacktriangle	\blacktriangle	A	\blacktriangle	A	A	Δ.	A	A	A .	A .	A .	A	A	Δ.	A	A	A	A	A	\blacktriangle	\blacktriangle	\blacktriangle	\blacktriangle	A	A	A	•	4
Russian Federation	567 (3.6)	▼			lack	A	lack	\blacksquare	\blacktriangle	lack	A 4	Ν.	A A	A	A .	A .	Δ.	A	A .	Δ.	A	A	▲	\blacksquare	▲	lack	lack	lack	lack	lack	\blacksquare	A	A	4
England ⋈	558 (2.5)	•	▼	▼		A	\blacktriangle	\blacktriangle	\blacksquare	A	A	Δ.	A	A	A .	A .	A .	A	A .	Δ.	A	A	▲	\blacktriangle	\blacktriangle	\blacktriangle	\blacktriangle	\blacktriangle	\blacksquare	\blacktriangle	A	A	•	•
Finland	549 (2.4)	•	▼	▼	▼					\blacktriangle	A 4	.	A	A	A .	A .	A .	A A	A .	A .	A	A	\blacksquare	\blacktriangle	\blacktriangle	\blacktriangle	\blacksquare	\blacktriangle	lack	lack	\blacksquare	A	A	4
Poland	549 (2.2)	▼	▼	▼	▼					\blacktriangle	A 4	A .	A A	A	A .	A .	A .	A <i>A</i>	A <i>A</i>	A .	A	A	▲	\blacktriangle	\blacktriangle	\blacktriangle	\blacktriangle	\blacktriangle	\blacksquare	\blacktriangle	▲			4
Chinese Taipei	544 (2.2)	▼	▼	▼	▼										A .	A .	A .	A A	A .	A .	A	A	▲	\blacksquare	lack	\blacksquare	\blacksquare	\blacktriangle	\blacksquare	▲	\blacksquare	A	•	4
Sweden	544 (2.1)	•	▼	▼	▼										A .	A .	A .	A	A .	A .	A	A	▲	\blacktriangle	▲	\blacksquare	\blacktriangle	\blacktriangle	\blacktriangle			•	•	•
Australia ⋈	540 (2.2)	▼	▼	▼	▼	▼	▼									4	A .	A	A .	Δ.	A	A	▲	\blacksquare	lack	\blacktriangle	\blacktriangle	\blacktriangle	\blacksquare	▲	A	A	A	4
Bulgaria	540 (3.0)	•	▼	▼	▼	▼	▼										A .	A	A .	Δ.	A	A	▲	\blacktriangle	▲	\blacksquare	\blacktriangle		\blacktriangle				•	4
Czech Republic	540 (2.3)	▼	▼	▼	▼	▼	▼									4	A .	A A	A A	A .	A	A	▲	\blacktriangle	\blacktriangle	\blacktriangle	\blacktriangle	\blacktriangle	\blacksquare	▲	A	▲	A	4
Denmark	539 (2.2)	•	▼	▼	▼	▼	▼									- 4	A .	A A	A A	A .	A	A	▲	\blacktriangle	▲	lack	\blacktriangle	\blacktriangle		\blacktriangle				•
Norway (5)	539 (2.0)	▼	▼	▼	▼	▼	▼									4	A .	A 4	A 4	A .	A	▲	▲	\blacksquare	\blacktriangle	\blacksquare	\blacktriangle	\blacktriangle	\blacksquare		▲	▲	▲	4
Italy	537 (2.2)	▼	▼	▼	▼	▼	▼	▼	▼							4	A .	A A	A 4	A .	A	\blacktriangle	▲	\blacksquare	\blacktriangle	lack	\blacktriangle	\blacktriangle	\blacksquare	\blacktriangle	▲		▲	4
Macao SAR	536 (1.3)	▼	▼	▼	▼	▼	▼	▼	▼							4	A .	A A	A A	A .	A	A	▲	\blacksquare	▲	\blacktriangle	\blacksquare	▲				▲	A	
Austria	530 (2.2)	•	▼	▼	▼	▼	▼	▼	▼	▼	▼ 1	7	▼ '	▼	▼	▼					A	▲	▲	▲	▲	▲	A	▲	▲	▲	▲	▲	A	A
Slovak Republic	529 (2.7)	•	▼	▼	•	▼	▼	▼	▼	▼	▼ 1	7	▼ '	▼	▼	▼ _					A	A	▲	▲	▲	A	A	▲	▲	▲	A	▲	A	A
Netherlands	527 (2.5)	•	▼	▼	•	•	▼	▼	▼	▼	V 1	7	▼ '	▼	▼	▼							▲	A	▲	A	A	A	▲	▲	A	A	A	4
Germany	524 (2.1)	•	•	▼	•	•	•	▼	▼	▼	▼ '	7	▼ '	▼	▼	▼ _	_	_	_	_	_				A	A	A	▲	A	A	A	▲	A	_
New Zealand	521 (2.3)	•	▼	▼	▼	V	▼	▼	▼	▼	V V		V	▼	▼	▼ `	7 1	▼	-	4	4					A	A	A	\blacksquare	A	A	A	A	A
Spain	521 (2.2)		_	V	_	V	V	V	V	V	<u> </u>		V	▼	V	V		V	_	_	_	_				A	\triangle	▲				_	A	1
Portugal	520 (2.3)		_	V	_	_	<u> </u>	V	<u> </u>	<u> </u>	<u> </u>	4	V	▼	V	Y .		V	<u> </u>	+	-	-	-						A	A	A	A	A	1
Slovenia	520 (1.9)		_	V	_	V	V	V	V	<u> </u>	<u> </u>		V (▼	V	V		V (٧ - ا										A	A	A	A	A	1
Malta	515 (2.7)	·	Ţ	Y	Ţ	Ť	Ţ	•	•	-	¥ .		<u> </u>	<u> </u>	<u>.</u>	Y ,						▼	-								-	A	A	_
France	514 (2.5)	Ť	_	v	V	Ť	V	V	V	V	V .		V 1	V	V	V 1		V `		Y	*	V									H	A	A	
Serbia	514 (2.8)	÷	*	*	Ť	Ť	*	*	Y	•	<u> </u>	١,	V ,	•	*	•	٧.	V ,		· .	•	*										-		
Albania	513 (3.1) 511 (2.9)	Ť	*	V	Ť	Ť	V	V	V	.	Ž,		V 1	•	V	Y	٧,	V ,	Y	· .	Ĭ	*	▼	▼								A	A	
Cyprus Belgium (Flemish)	511 (2.9)	Ť	Ť	Ť	÷	Ť	Ť	Ť	Ť	÷	,		•	•	•	•	١,	•		١,	÷	•	÷	Ť										4
Israel M	510 (2.2)	Ť	Ť	·	Ť	Ť	Ť	Ť	Ť	Ť	,		• ,	Ť	Ť	Ť,	١,		٠,	•	Ì	•	j	·										
Turkiye	496 (3.4)	Ť	V	v	Ť	Ť	•	•	•	.	V V		V 1	~	V	v	,	V 1			·	.	·	•	v	v	v	_	▼	▼	▼	-		4
Belgium (French)	494 (2.7)	Ť	Ť	v	Ť	Ť	Ť	Ť	•	Ť	,		• ,	Ť	Ť.	,	,	•	,	,	Ť	Ť	÷	•	÷	Ť	Ť	Ť	Ť	*	*			
Montenegro	487 (1.6)	÷	Ť	*	Ť	Ť	Ť	Ť	Ť	Ť		,	· ,	Ť	Ť	,	,	•	,	,	Ť	Ť	Ť	Ť	÷	Ť	Ť	Ť	Ť	Ť	Ť	▼	▼	-
North Macedonia	442 (5.3)	Ť	V	·	Ť	V	V	V	V	Ť	¥ 1	,	· ,	Ť	V	,	,	, ,	,	,	Ÿ	Ť	Ť	V	Ť	Ť	Ť	Ť	Ť	V	V	V	V	
Azerbaijan	440 (3.6)	Ť	*	*	*	*	Ť	V	*	·	V 1	,	· ,	·	V	,	,	•	,	, ,	Ť	·	Ť	V	Ť	V	Ť	*	Ť	*	V	V	Ť	V
Uzbekistan	437 (2.9)	V	V	V	▼	V	V	▼	▼	▼	V 1	7	V	V	V	v ,	7 .	·	,	7	Ť	▼	V	▼	V	V	V	▼	V	V	V	▼		
Oman	429 (3.7)	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼ 1	7	▼ ,	▼	▼	▼ .	v .	v .	v ,	▼ .	V	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼		7
Kosovo	421 (3.1)	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼ 1	7	▼ ,	▼	▼ .	▼ ,	7 ,	v	7	▼ .	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	
Brazil ⋈	419 (5.3)	_	▼	▼	▼	▼	▼	▼	▼	▼	V	7	▼ ,	▼	▼ .	▼ .	v .	▼ 、	7 ,	▼ .	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	7
Iran, Islamic Rep. of ⋈	413 (4.9)	_	▼	▼	▼	▼	▼	▼	▼	▼	▼ 1	7	▼ ,	▼	▼ .	▼ ,	7	▼ \	7	▼ .	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	7
Jordan	381 (5.4)	•	▼	▼	▼	▼	▼	▼	▼	▼	▼ 1	7	▼ '	▼	▼	▼ `	v .	v v	v .	▼ .	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	7
Egypt	378 (5.4)	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼ 1	7	▼ \	▼	▼ .	▼ `	7	▼ \	7	▼ .	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	V
South Africa ⋈	288 (4.4)	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼ 1	7	▼ \	▼	▼	▼ `	₹ `	▼ \	7	▼ .	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼
Benchmarking Participants																																		
loscow City, Russian Federation	598 (2.1)	•	A	A	•	A	A	A	A	A		. I.		A	lack	A .	. .	A .		. .	A	lack	A	A	A	A	A	A	A	A	A	•		
Alberta, Canada	539 (3.6)	Ŧ	-	▼	₹	₹	₹	_			Т	Ť	T	-			A .				•	lack	▲	\blacksquare	lack	\blacksquare		\blacksquare	lack	A	A		<u> </u>	7
British Columbia, Canada	535 (3.5)	▼	▼	▼	▼	_	\rightarrow	▼	▼									T		Δ.	_ _	<u> </u>	<u> </u>	<u>_</u>	_	_	<u> </u>	<u> </u>	<u> </u>	_	_	_	_	A
vfoundland & Labrador, Canada	523 (3.2)	▼	▼	▼	▼	▼			▼	▼	▼ 1	7	▼ \	▼	▼ :	▼					Ť				▲	A	A	A	A	A	A		A	
South Africa (6) ⋈	384 (4.5)	_	▼	▼	▼		_	_	_	_	▼ 1	_	_	_	_		-	_	_	-	_	_	_	_	_		\rightarrow	_	-	_	-	▼	-	-

- Average achievement significantly higher than comparison country
- Average achievement significantly lower than comparison country

Significance tests were not adjusted for multiple comparisons. Five percent of the comparisons would be statistically significant by chance alone. () Standard errors appear in parentheses. Because of rounding some results may appear inconsistent. Issues identified in Albania's data quality led to reduced comparability and framework coverage.



Exhibit 1.2: Significance of Differences Between Countries' Average Reading Achievement

Assessed Fourth Grade Students at the End of the School Year

⋈ Assessed one year later than originally scheduled



											(Co	ont	tin	ue) (
Country	Average Scale Score	Azerbaijan	Uzbekistan	Oman	Kosovo	Brazil ⋈	Iran, Islamic Rep. of ⋈	Jordan	Egypt	South Africa ⋈	Benchmarking Participants	Moscow City, Russian Federation	Alberta, Canada	British Columbia, Canada	Newfoundland & Labrador, Canada	
Singapore	587 (3.1)	A	<u></u>	A	<u> </u>	<u> </u>	<u>_</u>	À	<u></u>	A	_	▼	<u> </u>	_	<u>_</u>	ľ
Hong Kong SAR	573 (2.7)	•	A	A	▲	A	▲	▲	\blacktriangle	A		▼	A	A	▲	Ì
Russian Federation	567 (3.6)	A	A	▲	A	A	▲	lack	lack	A		▼	A	A	A	I
England ⋈	558 (2.5)	•	▲	▲	\blacksquare	A	▲	▲	lack	▲		▼	A	▲	▲	
Finland	549 (2.4)	A	▲	▲	▲	A	A	▲	A	A		▼	A	A	▲	
Poland	549 (2.2)	A	A	A	A	A	A	A	A	A		V	A	A	A	ļ
Chinese Taipei	544 (2.2)	A	A	A	A	A	A	A	A	A		V		A	A	ł
Sweden Australia ⋈	544 (2.1) 540 (2.2)		A	A	A	A	A	A	A	A		▼		A	A	t
Bulgaria	540 (2.2)		1		<u> </u>	_	<u> </u>		<u>_</u>	<u> </u>		*			<u> </u>	t
Czech Republic	540 (2.3)	<u> </u>	_	<u> </u>	_	_	_	_	_	_		▼			_	İ
Denmark	539 (2.2)	A	A	A	A	A	A	A	lack	•		▼			A	İ
Norway (5)	539 (2.0)	A	A	A	A	A	▲	\blacktriangle	\blacktriangle	A		▼			▲	Ī
Italy	537 (2.2)	A	\blacksquare	▲	▲	•	lack	lack	\blacktriangle	▲		▼			\blacksquare	I
Macao SAR	536 (1.3)	A	▲	▲	▲	▲	▲	▲	A	▲		▼			▲	ļ
Austria	530 (2.2)	A	▲	▲	A	A	▲	A	A	A		▼	▼			1
Slovak Republic	529 (2.7)	A	A	A	A	A	A	A	A	A		V	V			1
Netherlands	527 (2.5)	A	A	A	A	A	A	A	A	A		V	V	_	_	ł
Germany New Zealand	524 (2.1) 521 (2.3)	A	A	A	A	A	A	A	A	A		*	*	*		ł
Spain	521 (2.2)		<u> </u>	<u> </u>	_	_		<u> </u>	<u> </u>	<u> </u>		·	*	·		t
Portugal	520 (2.3)	<u> </u>	<u> </u>	A	<u> </u>	<u> </u>	•	A	<u> </u>	<u> </u>		▼	▼	▼		t
Slovenia	520 (1.9)	A	▲	A	A	A	A	▲	A	A		▼	▼	▼		Ī
Malta	515 (2.7)	A	\blacksquare	▲	▲	A	lack	lack	\blacktriangle	▲		▼	▼	▼	▼	I
France	514 (2.5)	A	▲	▲	A	A	▲	▲	A	A		▼	▼	▼	▼	Į
Serbia	514 (2.8)	A	A	A	A	A	A	A	A	A		▼	•	▼	•	1
Albania	513 (3.1)	A	A	A	A	A	A	A	A	A		V	V	V	V	+
Cyprus Polaium (Flomish)	511 (2.9)	A	A	A	A	A	A	A	A	A		V	*	V	V	ł
Belgium (Flemish) Israel ⋈	511 (2.3) 510 (2.2)	A	A	A	<u> </u>	A	A	A	<u> </u>	A		*	V	V	*	ł
Turkiye	496 (3.4)		<u> </u>	<u> </u>	_	<u> </u>		_	<u> </u>	<u> </u>		·	*	·	*	i
Belgium (French)	494 (2.7)	<u> </u>	<u> </u>	A	<u> </u>	<u> </u>	•	A	<u> </u>	<u> </u>		▼	▼	▼	▼	t
Montenegro	487 (1.6)	\blacksquare	\blacktriangle	A	•	A	•	lack	lack	A		▼	▼	▼	▼	Î
North Macedonia	442 (5.3)				▲	▲	\blacktriangle	\blacktriangle	\blacktriangle	▲		▼	▼	▼	▼	I
Azerbaijan	440 (3.6)			▲	▲	A	▲	▲	A	▲		▼	▼	▼	▼	ļ
Uzbekistan	437 (2.9)				_	A	A	A	A	A		▼	•	▼	•	1
Oman	429 (3.7)	V	_				_	A	A	A		V	V	V	_	ł
Kosovo	421 (3.1)	V	Ţ					A	A	A		Ţ	Ţ	Ţ	Y	ł
Brazil ⋈ Iran, Islamic Rep. of ⋈	419 (5.3) 413 (4.9)	▼	V	•				A	A	A		*	V	*	V	ł
Jordan	381 (5.4)	▼	∀	*	▼	▼	▼	_	_	<u> </u>		▼	▼	▼	∀	ļ
Egypt	378 (5.4)	▼	▼	▼	▼	▼	▼			_		▼	▼	▼	▼	İ
South Africa ⋈	288 (4.4)	▼	▼	▼	▼	▼	▼	▼	▼			▼	▼	▼	▼	Í
Benchmarking Participants																
Moscow City, Russian Federation	598 (2.1)	•	A	▲	A	A	A	A	A	A			A	A	A	I
Alberta, Canada	539 (3.6)	A	A	A	A	A	A	A	A	A		▼			A	Ī
British Columbia, Canada	535 (3.5)	A	A	A	A	A	A	A	A	A		▼			A	Ţ
lewfoundland & Labrador, Canada	523 (3.2)	A	A	A	A	A	A	•	A	A		V	▼	V		
South Africa (6) ⋈	384 (4.5)	▼	▼	▼	▼	▼	▼			▲		▼	▼	▼	▼	1

- Average achievement significantly higher than comparison country
- ▼ Average achievement significantly lower than comparison country

Significance tests were not adjusted for multiple comparisons. Five percent of the comparisons would be statistically significant by chance alone. () Standard errors appear in parentheses. Because of rounding some results may appear inconsistent. Issues identified in Albania's data quality led to reduced comparability and framework coverage.

