

Appendix 9D: PIRLS 2021 Item Statistics by Booklet Position

PIRLS 2021 International Average Text Statistics by Booklet Position—paperPIRLS, Part 1/2

Text		Sampl	e Sizes	Pe	rcent Corr	ect
		Position 1	Position 2	Position 1	Position 2	Difference
Literary	Texts			<u>'</u>		
	Shiny Straw	7,696	7,567	53.3	51.2	-2.1
Difficult	² Oliver and the Griffin	7,615	7,612	49.7	49.9	0.2
	The Ink Drinker	7,667	7,570	50.5	48.8	-1.7
	Pemba Sherpa	7,768	8,305	70.5	69.4	-1.1
Medium	The Ostrich and the Hat	7,653	8,412	57.1	56.0	-1.1
	The Empty Pot	7,687	8,438	62.7	61.8	-0.9
	¹ Learning a New Language	8,481	8,460	68.8	67.8	-1.0
Easy	¹ The Summer My Father Was 10	8,483	8,544	78.8	78.6	-0.2
	Library Mouse	8,455	8,383	78.2	76.8	-1.4
Informat	ional Texts					
	Where's the Honey?	7,701	7,624	50.0	47.6	-2.4
Difficult	² Icelandic Horses	7,536	7,515	46.2	44.9	-1.3
	² The World's Bank of Seeds	7,551	7,561	43.0	44.4	1.4
	How Did We Learn to Fly?	7,677	8,291	73.3	70.8	-2.5
Medium	Marie Curie	7,757	8,414	51.9	50.8	-1.0
	Sharks	7,711	8,186	53.7	51.9	-1.8
	¹ The Amazing Octopus	8,498	8,452	66.4	67.5	1.1
Easy	Training a Deaf Polar Bear	8,577	8,351	76.9	74.3	-2.7
	Hungry Plant	8,533	8,418	80.2	79.2	-1.0
Overall		143,046	146,103	61.7	60.6	-1.1

¹ Easy texts that always appear in position 1. Position 1 statistics refer to the text when paired with another easy text; position 2 statistics refer to the text when paired with a medium text.



² Difficult texts that always appear in position 2. Position 1 statistics refer to the text when paired with a medium text; position 2 statistics refer to the text when paired with another difficult text.



PIRLS 2021 International Average Text Statistics by Booklet Position—paperPIRLS Part 2/2

Text		Percent	Omitted Re	esponses	Percent Not-Reached Responses			
		Position 1	Position 2	Difference	Position 1	Position 2	Difference	
Literary	Texts							
	Shiny Straw	6.5	7.1	0.6	4.0	3.4	-0.6	
Difficult	² Oliver and the Griffin	12.2	11.3	-0.9	3.3	3.0	-0.3	
	The Ink Drinker	10.2	10.9	0.7	5.1	3.9	-1.1	
	Pemba Sherpa	3.9	4.8	0.9	3.4	3.5	0.2	
Medium	The Ostrich and the Hat	7.3	6.9	-0.4	4.5	4.0	-0.5	
	The Empty Pot	5.3	5.1	-0.2	3.6	2.8	-0.8	
	¹ Learning a New Language	3.9	4.3	0.4	2.7	3.0	0.2	
Easy	¹ The Summer My Father Was 10	2.9	3.1	0.2	0.9	1.0	0.1	
	Library Mouse	3.1	4.0	0.9	1.6	1.7	0.1	
Informat	ional Texts							
	Where's the Honey?	9.1	9.9	0.9	3.3	2.4	-0.9	
Difficult	² Icelandic Horses	12.8	12.3	-0.5	5.7	5.8	0.1	
	² The World's Bank of Seeds	8.3	8.1	-0.2	7.1	6.9	-0.2	
	How Did We Learn to Fly?	4.6	5.3	0.7	1.8	1.7	-0.1	
Medium	Marie Curie	8.6	8.1	-0.5	5.7	4.2	-1.5	
	Sharks	9.4	9.6	0.2	4.4	2.7	-1.7	
	¹ The Amazing Octopus	7.2	7.3	0.0	4.3	4.4	0.1	
Easy	Training a Deaf Polar Bear	3.1	3.4	0.3	1.5	1.4	-0.1	
	Hungry Plant	2.6	2.5	-0.1	0.7	0.6	-0.1	
Overall		6.7	6.9	0.2	3.5	3.1	-0.4	

¹ Easy texts that always appear in position 1. Position 1 statistics refer to the text when paired with another easy text; position 2 statistics refer to the text when paired with a medium text.

² Difficult texts that always appear in position 2. Position 1 statistics refer to the text when paired with a medium text; position 2 statistics refer to the text when paired with another difficult text.



PIRLS 2021 International Average Text Statistics by Booklet Position—digitalPIRLS with ePIRLS, Part 1/2

Text		Sampl	e Sizes	Pe	rcent Corr	ect
TOAL		Position 1	Position 2	Position 1	Position 2	Difference
Literary	Texts					
	Shiny Straw	6,004	6,019	58.8	58.3	-0.5
Difficult	² Oliver and the Griffin	5,982	6,024	52.7	53.0	0.2
	The Ink Drinker	6,037	6,007	54.1	53.8	-0.3
	Pemba Sherpa	6,084	5,670	68.9	67.5	-1.4
Medium	The Ostrich and the Hat	6,003	5,617	61.0	62.1	1.1
	The Empty Pot	6,072	5,636	66.0	66.1	0.1
	¹ Learning a New Language	5,669	5,651	71.9	71.3	-0.6
Easy	¹ The Summer My Father Was 10	5,724	5,666	75.9	75.6	-0.2
	Library Mouse	5,713	5,683	77.8	77.9	0.2
Informat	ional Texts					
	Where's the Honey?	8,014	6,064	49.8	50.1	0.3
Difficult	² Icelandic Horses	7,929	6,029	51.6	51.7	0.1
	² The World's Bank of Seeds	7,982	5,997	47.7	47.5	-0.2
	How Did We Learn to Fly?	7,959	5,646	68.3	67.1	-1.1
Medium	Marie Curie	7,910	5,654	53.1	54.1	1.1
	Sharks	8,009	5,696	54.3	55.1	0.8
	¹ The Amazing Octopus	7,616	5,674	69.1	69.4	0.2
Easy	Training a Deaf Polar Bear	7,577	5,660	69.0	70.2	1.3
	Hungry Plant	7,579	5,719	76.1	78.5	2.4
Overall	(digitalPIRLS)	123,863	104,112	62.6	62.7	0.2
ePIRLS 7	lasks lasks					
Rainfore	sts	7,046	10,540	57.1	55.8	-1.3
The Lege	end of Troy	7,026	10,538	62.6	60.5	-2.1
Zebra an	d Wildebeest Migration	7,031	10,471	60.5	58.5	-2.0
Oceans		6,997	10,505	60.9	59.0	-1.9
Voyages	of Discovery	7,025	10,436	48.7	46.3	-2.4
Overall	(ePIRLS)	35,125	52,490	58.0	56.0	-2.0

¹ Easy texts that always appear in position 1. Position 1 statistics refer to the text when paired with another easy text; position 2 statistics refer to the text when paired with a medium text.

² Difficult texts that always appear in position 2. Position 1 statistics refer to the text when paired with a medium text; position 2 statistics refer to the text when paired with another difficult text.





PIRLS 2021 International Average Text Statistics by Booklet Position—digitalPIRLS with ePIRLS, Part 2/2

Text		Percent	Omitted Re	esponses	Percent Not-Reached Responses			
		Position 1	Position 2	Difference	Position 1	Position 2	Difference	
Literary	Texts							
	Shiny Straw	3.8	3.5	-0.4	1.2	0.6	-0.7	
Difficult	² Oliver and the Griffin	7.0	6.0	-0.9	1.2	0.9	-0.3	
	The Ink Drinker	6.9	6.8	-0.1	3.0	1.1	-1.9	
	Pemba Sherpa	2.5	2.5	0.0	1.9	1.3	-0.5	
Medium	The Ostrich and the Hat	3.7	3.5	-0.1	1.7	1.1	-0.6	
	The Empty Pot	2.5	2.0	-0.5	1.6	1.0	-0.6	
	¹ Learning a New Language	1.8	1.8	0.0	0.9	0.9	-0.1	
Easy	¹ The Summer My Father Was 10	1.6	1.8	0.2	0.5	0.5	0.1	
	Library Mouse	1.3	1.3	0.0	0.7	0.3	-0.4	
Informat	ional Texts							
	Where's the Honey?	5.8	5.7	-0.1	1.9	0.9	-1.0	
Difficult	² Icelandic Horses	7.1	6.6	-0.4	2.3	1.8	-0.5	
	² The World's Bank of Seeds	5.6	5.4	-0.2	3.1	2.8	-0.4	
	How Did We Learn to Fly?	3.2	2.7	-0.5	1.1	0.4	-0.6	
Medium	Marie Curie	6.8	5.5	-1.4	3.2	1.7	-1.4	
	Sharks	5.9	4.7	-1.2	2.2	0.7	-1.5	
	¹ The Amazing Octopus	3.8	3.7	-0.1	2.1	2.0	-0.1	
Easy	Training a Deaf Polar Bear	2.3	1.7	-0.6	0.8	0.3	-0.5	
	Hungry Plant	1.0	0.8	-0.1	0.3	0.2	-0.2	
Overall ((digitalPIRLS)	4.0	3.7	-0.4	1.6	1.0	-0.6	
ePIRLS 1	Tasks Tasks							
Rainfores	sts	4.1	3.5	-0.6	1.9	0.7	-1.1	
The Lege	end of Troy	5.2	4.3	-0.9	3.2	1.2	-2.0	
Zebra an	d Wildebeest Migration	5.1	4.4	-0.7	3.2	1.3	-1.9	
Oceans		4.7	4.1	-0.6	2.7	0.9	-1.8	
Voyages	of Discovery	6.9	6.1	-0.8	4.1	1.8	-2.3	
Overall ((ePIRLS)	5.2	4.5	-0.7	3.0	1.2	-1.8	

¹ Easy texts that always appear in position 1. Position 1 statistics refer to the text when paired with another easy text; position 2 statistics refer to the text when paired with a medium text.

² Difficult texts that always appear in position 2. Position 1 statistics refer to the text when paired with a medium text; position 2 statistics refer to the text when paired with another difficult text.





PIRLS 2021 International Average Text Statistics by Booklet Position—Bridge, Part 1/2

Text	Sample	e Sizes	Percent Correct			
	Position 1	Position 2	Position 1	Position 2	Difference	
Literary Texts						
Shiny Straw	5,700	5,687	61.3	60.2	-1.2	
Oliver and the Griffin	5,689	5,702	60.1	58.5	-1.5	
¹ The Ink Drinker	5,756	5,687	77.6	77.6	0.0	
Pemba Sherpa	5,716	5,693	69.6	69.1	-0.5	
Informational Texts						
Where's the Honey?	5,706	5,656	57.7	55.3	-2.4	
² Icelandic Horses	5,663	5,724	55.6	54.8	-0.8	
¹ The World's Bank of Seeds	5,709	5,729	79.5	79.5	0.0	
² How Did We Learn to Fly?	5,689	5,670	59.6	59.2	-0.5	
Overall	45,628	45,548	65.1	64.3	-0.9	

¹ Texts that always appear in position 1. Position 1 statistics refer to the booklet in which the text has the higher percent correct statistic.

PIRLS 2021 International Average Text Statistics by Booklet Position—Bridge, Part 2/2

Text	Percent	Omitted Re	esponses	Percent Not-Reached Responses			
	Position 1	Position 2	Difference	Position 1	Position 2	Difference	
Literary Texts		·			·		
Shiny Straw	4.1	4.6	0.5	1.8	1.3	-0.5	
Oliver and the Griffin	6.5	6.5	0.0	2.7	2.0	-0.7	
¹ The Ink Drinker	2.3	2.1	-0.2	1.6	1.3	-0.2	
Pemba Sherpa	3.0	3.2	0.3	1.7	1.5	-0.2	
Informational Texts							
Where's the Honey?	5.8	6.2	0.4	1.8	1.5	-0.3	
² Icelandic Horses	9.0	8.5	-0.6	2.5	2.8	0.3	
¹ The World's Bank of Seeds	2.5	2.5	-0.1	0.7	0.9	0.3	
² How Did We Learn to Fly?	6.6	6.9	0.3	1.4	1.4	0.0	
Overall	5.0	5.1	0.1	1.8	1.6	-0.2	

¹ Texts that always appear in position 1. Position 1 statistics refer to the booklet in which the text has the higher percent correct statistic.



² Texts that always appear in position 2. Position 1 statistics refer to the booklet in which the text has the higher percent correct statistic.

² Texts that always appear in position 2. Position 1 statistics refer to the booklet in which the text has the higher percent correct statistic.



PIRLS 2021 Country Average Item Statistics by Booklet Position—paperPIRLS

Country	Sample Sizes		Average Percent Correct Across Items		Average Percent Omitted Responses Across Items		Average Percent Not Reached Responses Across Items	
	Position 1	Position 2	Position 1	Position 2	Position 1	Position 2	Position 1	Position 2
Albania	4,197	4,216	73.8	71.2	6.3	6.1	0.5	0.8
Australia	5,503	5,398	72.0	70.5	2.5	2.9	1.2	1.3
Austria	4,854	4,743	70.2	69.4	5.6	6.1	0.9	0.9
Azerbaijan	5,188	5,099	52.2	50.2	11.1	12.3	3.7	4.8
Bahrain	5,186	5,108	56.3	55.3	7.6	7.7	4.4	3.9
Belgium (French)	4,250	4,283	63.6	61.3	7.6	7.6	3.4	2.6
Brazil	4,870	4,787	50.8	49.0	11.1	12.0	7.1	6.5
Bulgaria	4,063	4,002	72.0	71.1	4.5	4.3	1.1	1.1
Cyprus	4,629	4,509	67.4	65.2	6.1	6.5	3.5	2.8
Egypt	6,704	8,165	43.7	43.8	19.1	21.0	11.6	11.5
England	4,128	4,122	75.0	74.1	2.7	3.3	0.7	0.8
France	5,376	5,267	67.8	66.7	7.6	8.1	2.6	2.1
Georgia	5,276	5,093	63.4	62.5	6.8	7.1	2.9	2.9
Hong Kong SAR	4,340	3,298	78.5	78.0	3.6	3.9	0.7	0.7
Iran, Islamic Rep. of	5,129	6,627	47.2	46.9	13.2	13.5	8.1	7.1
Ireland	5,283	4,026	78.1	77.8	1.6	1.6	0.6	0.8
Jordan	5,225	6,648	43.9	43.2	15.9	15.2	11.9	10.4
Kosovo	4,580	4,472	45.9	45.1	7.0	7.2	3.7	3.4
Latvia	4,377	4,322	69.5	69.0	4.5	4.5	1.4	1.5
Macao SAR	5,127	5,057	71.0	69.4	3.4	3.4	0.8	0.6
Montenegro	4,517	4,401	62.8	61.4	9.4	9.7	5.0	4.0
Morocco	6,070	7,834	37.5	37.3	9.6	9.3	7.5	4.7
Netherlands	4,345	4,244	69.7	67.5	3.3	3.8	1.2	1.3
North Macedonia	2,930	2,861	52.6	50.8	9.4	9.6	4.3	4.6
Northern Ireland	4,586	3,498	76.2	75.7	2.2	2.3	0.6	0.4
Oman	4,587	5,908	51.8	50.8	8.1	8.0	7.4	6.3
Poland	4,741	3,588	74.6	74.6	5.7	6.1	0.8	0.9
Serbia	4,053	4,003	67.1	66.8	6.9	6.5	2.1	1.7
South Africa	10,578	13,631	27.3	26.2	9.5	9.2	10.2	8.3



PIRLS 2021 Country Average Item Statistics by Booklet Position—paperPIRLS (Continued)

Country	Sample Sizes		Average Percent Correct Across Items		Average Percent Omitted Responses Across Items		Average Percent Not Reached Responses Across Items	
	Position 1	Position 2	Position 1	Position 2	Position 1	Position 2	Position 1	Position 2
Turkiye	6,015	6,034	63.0	60.4	3.7	3.7	1.3	1.1
Uzbekistan	5,851	5,781	49.3	48.5	6.3	5.4	6.1	4.1
International Average	156,553	161,020	60.8	59.8	7.2	7.4	3.8	3.4
Benchmarking Participant								
South Africa (6)	8,082	10,380	40.0	38.7	3.2	3.1	2.0	2.3





PIRLS 2021 Country Average Item Statistics by Booklet Position — digitalPIRLS and ePIRLS

Country	Sample Sizes		Average Percent Correct Across Items		Average Percent Omitted Responses Across Items		Average Percent Not Reached Responses Across Items	
	Position 1	Position 2	Position 1	Position 2	Position 1	Position 2	Position 1	Position 2
Belgium (Flemish)	5,138	5,061	56.5	56.2	4.9	4.8	1.5	1.0
Chinese Taipei	5,578	5,521	64.1	63.9	4.1	3.8	8.0	0.5
Croatia	3,954	3,909	68.4	68.0	3.1	3.2	0.7	0.4
Czech Republic	6,673	6,535	64.1	64.7	5.5	4.7	1.5	0.8
Denmark	4,840	4,739	64.1	64.3	4.4	3.4	2.7	1.4
Finland	7,639	6,369	66.4	67.2	4.8	4.2	1.0	0.6
Germany	4,620	4,570	61.3	60.8	7.0	6.9	2.3	1.4
Hungary	5,344	5,276	63.4	63.6	3.1	2.6	1.0	0.5
Israel	4,916	4,845	58.4	57.5	6.0	5.7	4.6	2.6
Italy	5,484	5,390	63.6	63.9	5.3	4.6	2.1	0.8
Kazakhstan	7,056	6,984	53.8	53.9	2.5	1.8	1.8	0.7
Lithuania	4,656	4,583	66.8	66.1	2.7	3.1	0.5	0.4
Malta	3,056	2,990	57.7	57.6	3.6	3.5	1.6	0.9
New Zealand	5,591	5,454	60.4	59.3	4.8	5.2	1.9	1.3
Norway (5)	5,407	5,305	64.4	63.2	4.1	3.7	1.5	0.9
Portugal	6,099	6,097	59.2	58.8	4.6	3.9	2.5	1.2
Qatar	5,260	5,220	51.9	50.8	5.5	4.5	4.7	2.4
Russian Federation	5,681	4,750	70.8	69.7	2.6	1.8	1.4	0.5
Saudi Arabia	4,357	5,154	42.7	42.7	5.6	3.9	6.2	2.7
Singapore	7,286	6,151	73.8	73.1	0.7	0.8	0.1	0.2
Slovak Republic	4,863	4,784	61.5	62.1	4.7	3.7	1.3	0.8
Slovenia	5,135	5,065	59.5	58.8	5.8	5.4	1.7	1.1
Spain	8,599	8,471	59.8	59.1	5.7	5.4	2.7	1.3
Sweden	5,187	5,130	65.3	65.0	4.6	4.3	1.7	1.2
United Arab Emirates	26,569	28,250	52.8	51.3	3.9	3.4	2.8	1.4
International Average	158,988	156,603	61.2	60.9	4.4	3.9	2.0	1.1
Benchmarking Particpants								
Alberta, Canada	3,027	2,991	63.7	63.5	3.1	3.3	1.5	1.0
British Columbia, Canada	4,730	4,582	63.4	62.2	3.7	3.4	1.6	1.1
Newfoundland & Labrador, Can.	2,445	2,419	61.9	60.4	5.5	4.9	3.8	2.2





PIRLS 2021 Country Average Item Statistics by Booklet Position—digitalPIRLS and ePIRLS (Continued)

Country	Sample Sizes		Average Percent Correct Across Items		Average Percent Omitted Responses Across Items		Average Percent Not Reached Responses Across Items	
	Position 1	Position 2	Position 1	Position 2	Position 1	Position 2	Position 1	Position 2
Quebec, Canada	3,762	3,695	67.8	66.2	3.3	3.0	1.8	1.1
Moscow City, Russian Fed.	6,267	5,221	77.4	76.8	1.3	1.1	0.4	0.2
Abu Dhabi, UAE	9,429	11,296	44.3	43.8	4.8	4.3	2.9	1.6
Dubai, UAE	7,727	7,676	66.4	66.1	2.3	2.0	1.6	0.9





PIRLS 2021 Country Average Item Statistics by Booklet Position— Bridge

Country	Sample Sizes		Average Percent Correct Across Items		Average Percent Omitted Responses Across Items		Average Percent Not Reached Responses Across Items	
	Position 1	Position 2	Position 1	Position 2	Position 1	Position 2	Position 1	Position 2
Belgium (Flemish)	1,607	1,628	59.8	58.6	4.5	4.9	1.9	1.1
Chinese Taipei	1,671	1,666	72.0	71.1	2.9	3.8	0.5	0.5
Croatia	1,231	1,212	71.5	71.3	4.1	3.9	1.0	0.4
Czech Republic	1,886	1,918	70.7	69.7	6.6	5.8	1.9	1.3
Denmark	1,411	1,388	68.9	67.5	4.5	5.1	2.1	1.9
Finland	2,055	2,063	69.4	69.1	4.5	4.4	1.1	1.0
Germany	1,339	1,337	67.6	67.3	7.8	8.1	1.6	1.9
Hungary	1,681	1,698	70.0	68.1	4.5	4.1	1.8	1.8
Israel	1,783	1,731	64.9	62.8	7.1	7.1	4.9	4.7
Italy	1,971	1,978	69.4	68.8	3.7	4.0	0.7	0.9
Kazakhstan	3,190	3,209	58.8	58.9	2.7	2.1	1.1	0.9
Lithuania	1,516	1,507	68.7	67.4	4.3	4.6	0.9	0.7
Malta	826	838	59.5	58.1	5.2	5.8	1.3	1.3
New Zealand	2,204	2,213	63.0	61.7	3.7	3.8	1.5	1.6
Norway (5)	1,655	1,673	65.1	64.9	5.8	5.5	2.1	1.9
Portugal	2,111	2,075	66.1	66.2	5.5	5.1	2.3	1.7
Qatar	1,336	1,331	57.1	54.9	5.6	5.7	2.8	2.9
Russian Federation	2,195	2,178	75.3	75.1	2.3	2.4	0.2	0.4
Saudi Arabia	1,864	1,856	41.7	41.4	8.3	7.8	5.9	5.4
Singapore	1,991	1,983	76.2	75.0	1.3	1.6	0.2	0.2
Slovak Republic	1,645	1,628	65.7	66.0	5.2	5.3	1.3	1.0
Slovenia	1,411	1,400	64.7	63.4	7.1	7.1	1.2	1.3
Spain	1,566	1,563	62.7	62.3	6.8	7.1	1.9	2.1
Sweden	1,833	1,864	67.8	67.2	5.6	5.6	2.1	2.1
United Arab Emirates	2,002	1,959	55.0	54.6	5.0	5.3	2.3	2.0
United States	1,648	1,652	70.4	68.7	3.3	3.2	1.8	1.1
International Average	45,628	45,548	65.5	64.6	4.9	5.0	1.8	1.6
Benchmarking Participant								
Moscow City, Russian Fed.	1,701	1,688	81.6	82.1	1.8	1.7	0.4	0.3

