

Parents' Perceptions of Their Child's School Scale

The *Parents' Perceptions of Their Child's School* (PCS) scale was created based on parents' responses to the six statements described below.

Items in the PIRLS 2016 *Parents' Perceptions of Their Child's School Scale*¹

		What do you think of your child's school?			
		Agree a lot	Agree a little	Disagree a little	Disagree a lot
ASBH09A	1) My child's school does a good job including me in my child's education -----	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
ASBH09B	2) My child's school provides a safe environment -----	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
ASBH09C	3) My child's school cares about my child's progress in school -----	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
ASBH09D	4) My child's school does a good job informing me of his/her progress -----	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
ASBH09E	5) My child's school promotes high academic standards -----	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
ASBH09F	6) My child's school does a good job in helping him/her become better in reading -----	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Very Satisfied Somewhat Satisfied Less than Satisfied
9.5 6.3

¹ For the purpose of scaling, categories in which there were very few respondents were combined. The categories "Disagree a little" and "Disagree a lot" were combined for all variables. The scale statistics that are reported herein reflect analysis of the items following collapsing.

Item Parameters for the PIRLS 2016 Parents' Perceptions of Their Child's School Scale

Item	delta	tau_1	tau_2	Infit
ASBH09A	0.08775	-1.64719	1.64719	1.02
ASBH09B	-0.56014	-1.57499	1.57499	1.22
ASBH09C	-0.46209	-1.61352	1.61352	0.82
ASBH09D	0.03829	-1.40332	1.40332	0.96
ASBH09E	0.90366	-1.57716	1.57716	1.14
ASBH09F	-0.00747	-1.46353	1.46353	1.00

Scale Transformation Constants for the PIRLS 2016 Parents' Perceptions of Their Child's School Scale

Scale Transformation Constants	
A = 7.908785	Transformed Scale Score = 7.908785 + 1.026352 • Logit Scale Score
B = 1.026352	

Equivalence Table of the Raw Score and Transformed Scale Scores for the PIRLS 2016 Parents' Perceptions of Their Child's School Scale

Raw Score	Transformed Scale Score	Cutpoint
0	3.57843	
1	4.89714	
2	5.63616	
3	6.23689	6.3
4	6.79025	
5	7.34568	
6	7.91434	
7	8.47752	
8	9.02158	
9	9.57101	9.5
10	10.16827	
11	10.92169	
12	12.26356	

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

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Cronbach's Alpha Reliability Coefficient and Principal Components Analysis of the Items in the PIRLS 2016 Parents' Perceptions of Their Child's School Scale

Country	Cronbach's Alpha Reliability Coefficient	Percent of Variance Explained	Component Loadings for Each Item					
			ASBHU9A	ASBHU9B	ASBHU9C	ASBHU9D	ASBHU9E	ASBHU9F
Australia	0.88	63	0.83	0.60	0.87	0.84	0.80	0.80
Austria	0.86	59	0.79	0.62	0.83	0.83	0.75	0.78
Azerbaijan	0.83	55	0.68	0.76	0.80	0.72	0.72	0.75
Bahrain	0.87	60	0.77	0.70	0.82	0.79	0.80	0.76
Belgium (Flemish)	0.85	58	0.81	0.68	0.84	0.85	0.63	0.73
Belgium (French)	0.87	60	0.79	0.72	0.84	0.82	0.70	0.77
Bulgaria	0.87	62	0.75	0.75	0.83	0.80	0.80	0.79
Canada	0.88	62	0.82	0.61	0.85	0.84	0.80	0.78
Chile	0.89	64	0.80	0.72	0.86	0.84	0.79	0.79
Chinese Taipei	0.88	63	0.78	0.77	0.88	0.87	0.67	0.78
Czech Republic	0.85	58	0.72	0.62	0.83	0.81	0.77	0.78
Denmark	0.89	64	0.80	0.71	0.85	0.85	0.82	0.78
Egypt	0.87	62	0.79	0.75	0.83	0.80	0.75	0.79
England	-	-	-	-	-	-	-	-
Finland	0.82	53	0.74	0.64	0.83	0.76	0.63	0.73
France	0.88	63	0.79	0.72	0.85	0.82	0.80	0.78
Georgia	0.84	56	0.71	0.64	0.82	0.76	0.79	0.77
Germany	0.87	60	0.82	0.64	0.83	0.82	0.76	0.76
Hong Kong SAR	0.85	57	0.80	0.62	0.83	0.83	0.66	0.77
Hungary	0.86	58	0.78	0.66	0.81	0.80	0.75	0.78
Iran, Islamic Rep. of	0.83	55	0.73	0.68	0.80	0.79	0.66	0.77
Ireland	0.85	58	0.79	0.59	0.82	0.82	0.76	0.76
Israel	0.89	64	0.81	0.68	0.85	0.84	0.80	0.81
Italy	0.84	57	0.75	0.59	0.81	0.80	0.78	0.76
Kazakhstan	0.80	51	0.72	0.61	0.79	0.67	0.72	0.75
Kuwait	0.89	65	0.78	0.75	0.86	0.82	0.82	0.81
Latvia	0.84	55	0.64	0.66	0.83	0.71	0.83	0.78
Lithuania	0.81	52	0.69	0.69	0.81	0.73	0.67	0.73
Macao SAR	0.85	57	0.77	0.65	0.81	0.81	0.73	0.75
Malta	0.75	46	0.59	0.62	0.77	0.70	0.72	0.66
Morocco	0.82	53	0.74	0.68	0.80	0.72	0.65	0.79
Netherlands	0.83	56	0.80	0.67	0.85	0.84	0.53	0.74
New Zealand	0.88	62	0.82	0.62	0.85	0.83	0.79	0.81
Northern Ireland	0.86	61	0.83	0.63	0.85	0.81	0.77	0.77
Norway (5)	0.86	59	0.78	0.63	0.84	0.82	0.77	0.77
Oman	0.85	57	0.77	0.66	0.81	0.76	0.76	0.76
Poland	0.87	61	0.74	0.74	0.85	0.75	0.82	0.79
Portugal	0.85	59	0.79	0.66	0.84	0.77	0.77	0.76
Qatar	0.89	64	0.79	0.71	0.86	0.81	0.81	0.81
Russian Federation	0.86	59	0.63	0.71	0.83	0.75	0.85	0.83
Saudi Arabia	0.86	61	0.78	0.71	0.83	0.79	0.73	0.81
Singapore	0.86	60	0.79	0.66	0.84	0.81	0.76	0.76
Slovak Republic	0.87	61	0.73	0.66	0.85	0.81	0.83	0.80
Slovenia	0.84	56	0.69	0.68	0.82	0.82	0.72	0.76
South Africa	0.83	54	0.68	0.67	0.75	0.76	0.74	0.78
Spain	0.85	58	0.77	0.68	0.83	0.81	0.72	0.76
Sweden	0.90	67	0.81	0.74	0.87	0.83	0.84	0.80
Trinidad and Tobago	0.87	61	0.81	0.63	0.85	0.79	0.79	0.78
United Arab Emirates	0.89	64	0.80	0.70	0.85	0.83	0.83	0.79
United States	-	-	-	-	-	-	-	-
Benchmarking Participants								
Buenos Aires, Argentina	0.82	53	0.74	0.58	0.82	0.75	0.74	0.74
Ontario, Canada	0.88	62	0.82	0.59	0.85	0.83	0.82	0.78
Quebec, Canada	0.87	60	0.80	0.65	0.84	0.83	0.76	0.76
Denmark (3)	0.88	63	0.82	0.68	0.84	0.86	0.81	0.76
Norway (4)	0.86	60	0.79	0.65	0.83	0.81	0.79	0.75
Moscow City, Russian Fed.	0.84	56	0.54	0.69	0.82	0.73	0.85	0.82
Eng/Afr/Zulu - RSA (5)	0.84	56	0.74	0.64	0.79	0.78	0.77	0.77
Andalusia, Spain	0.85	59	0.78	0.67	0.83	0.80	0.72	0.78
Madrid, Spain	0.86	59	0.80	0.65	0.84	0.81	0.70	0.77
Abu Dhabi, UAE	0.90	67	0.80	0.72	0.87	0.85	0.85	0.80
Dubai, UAE	0.87	61	0.79	0.64	0.85	0.81	0.80	0.77

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

A dash (-) indicates comparable data not available.

Relationship Between the PIRLS 2016 Parents' Perceptions of Their Child's School Scale and PIRLS 2016 Reading Achievement

Country	Pearson's Correlation with Reading Achievement		Variance in Reading Achievement Accounted for by Difference Between Regions of the Scale (η^2)
	(r)	(r ²)	
Australia	0.02	0.00	0.00
Austria	-0.03	0.00	0.00
Azerbaijan	0.12	0.01	0.01
Bahrain	0.19	0.04	0.04
Belgium (Flemish)	-0.06	0.00	0.00
Belgium (French)	0.00	0.00	0.00
Bulgaria	-0.06	0.00	0.00
Canada	0.01	0.00	0.00
Chile	0.03	0.00	0.00
Chinese Taipei	-0.06	0.00	0.00
Czech Republic	-0.11	0.01	0.01
Denmark	0.07	0.01	0.01
Egypt	0.08	0.01	0.01
England	-	-	-
Finland	-0.02	0.00	0.00
France	-0.01	0.00	0.00
Georgia	0.01	0.00	0.00
Germany	0.06	0.00	0.01
Hong Kong SAR	0.11	0.01	0.01
Hungary	-0.01	0.00	0.00
Iran, Islamic Rep. of	-0.01	0.00	0.00
Ireland	0.01	0.00	0.00
Israel	-0.13	0.02	0.01
Italy	0.03	0.00	0.00
Kazakhstan	-0.02	0.00	0.00
Kuwait	0.12	0.02	0.01
Latvia	-0.04	0.00	0.00
Lithuania	0.02	0.00	0.00
Macao SAR	0.12	0.01	0.01
Malta	0.08	0.01	0.00
Morocco	0.23	0.05	0.04
Netherlands	0.06	0.00	0.01
New Zealand	0.02	0.00	0.00
Northern Ireland	0.07	0.00	0.01
Norway (5)	0.07	0.01	0.01
Oman	0.12	0.01	0.02
Poland	-0.06	0.00	0.00
Portugal	0.02	0.00	0.00
Qatar	0.13	0.02	0.02
Russian Federation	-0.02	0.00	0.00
Saudi Arabia	0.12	0.01	0.02
Singapore	0.06	0.00	0.00
Slovak Republic	-0.08	0.01	0.00
Slovenia	-0.08	0.01	0.01
South Africa	0.13	0.02	0.02
Spain	0.02	0.00	0.00
Sweden	0.05	0.00	0.01
Trinidad and Tobago	0.15	0.02	0.01
United Arab Emirates	0.17	0.03	0.03
United States	-	-	-
International Median	0.02	0.00	0.00
Benchmarking Participants			
Buenos Aires, Argentina	-0.02	0.00	0.00
Ontario, Canada	0.01	0.00	0.00
Quebec, Canada	-0.05	0.00	0.01
Denmark (3)	0.07	0.00	0.01
Norway (4)	-0.01	0.00	0.00
Moscow City, Russian Fed.	-0.03	0.00	0.00
Eng/Afr/Zulu - RSA (5)	0.12	0.02	0.01
Andalusia, Spain	-0.04	0.00	0.00
Madrid, Spain	0.04	0.00	0.00
Abu Dhabi, UAE	0.15	0.02	0.03
Dubai, UAE	0.18	0.03	0.03

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

A dash (-) indicates comparable data not available.