

T	ACBG14A
T	ACBG14B
T	ACBG14C
T	ACBG14D
T	ACBG14E
T	ACBG14F
T	ACBG14G
T	ACBG14H
T	ACBG14I
T	ACBG14J

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Item Parameters for the PIRLS 2016 School Discipline Scale

ACBG14A	-0.12195	-2.34683	-0.42737	2.77420	1.24
ACBG14B	0.12937	-1.53131	-0.45652	1.98783	1.16
ACBG14C	0.91425	-2.22837	-0.27536	2.50373	1.02
ACBG14D	-0.39571	-1.01520	-0.90302	1.91822	1.08
ACBG14E	0.57429	-1.73047	-0.41827	2.14874	0.91
ACBG14F	-0.35555	-0.41221	-0.73370	1.14591	0.75
ACBG14G	-0.55939	0.41486	-1.38128	0.96642	0.84
ACBG14H	0.25527	-1.55859	-0.58526	2.14385	0.93
ACBG14I	0.33890	-1.63156	-0.63374	2.26530	0.84
ACBG14J	-0.77948	-0.03064	-0.67247	0.70311	0.86

Scale Transformation Constants for the PIRLS 2016 School Discipline Scale

Scale Transformation Constants	
A = 7.915470	Transformed Scale Score = 7.915470 + 0.941833 • Logit Scale Score
B = 0.941833	

Cronbach's Alpha Reliability Coefficient and Principal Components Analysis of the Items in the PIRLS 2016 School Discipline Scale

Country	Cronbach's Alpha Reliability Coefficient	Percent Variance Explained	Components Loadings for Each Item									
			ACBG1	ACBG2	ACBG3	ACBG4	ACBG5	ACBG6	ACBG7	ACBG8	ACBG9	ACBG10
Australia	0.88	51	0.58	0.59	0.72	0.63	0.84	0.75	0.76	0.77	0.76	0.73
Austria	0.86	45	0.48	0.56	0.76	0.62	0.83	0.77	0.63	0.70	0.74	0.53
Azerbaijan	0.95	70	0.50	0.73	0.86	0.80	0.84	0.93	0.92	0.88	0.87	0.94
Bahrain	0.96	74	0.74	0.82	0.78	0.90	0.87	0.91	0.91	0.88	0.84	0.92
Belgium (Flemish)	0.86	46	0.51	0.58	0.72	0.68	0.77	0.74	0.61	0.72	0.74	0.68
Belgium (French)	0.85	43	0.51	0.64	0.54	0.55	0.73	0.65	0.69	0.79	0.78	0.65
Bulgaria	0.93	64	0.64	0.80	0.81	0.82	0.73	0.81	0.85	0.82	0.84	0.86
Canada	0.88	50	0.62	0.61	0.71	0.64	0.77	0.74	0.74	0.74	0.77	0.69
Chile	0.92	59	0.57	0.60	0.73	0.65	0.83	0.87	0.86	0.86	0.82	0.79
Chinese Taipei	0.88	50	0.61	0.63	0.68	0.68	0.82	0.74	0.76	0.77	0.74	0.59
Czech Republic	0.83	41	0.48	0.49	0.64	0.69	0.75	0.66	0.65	0.73	0.56	0.67
Denmark	0.82	40	0.59	0.53	0.70	0.45	0.77	0.58	0.49	0.79	0.77	0.54
Egypt	0.93	61	0.61	0.63	0.75	0.80	0.86	0.85	0.86	0.85	0.75	0.79
England	0.77	34	0.67	0.67	0.63	0.14	0.71	0.48	0.36	0.67	0.74	0.51
Finland	0.79	35	0.57	0.54	0.71	0.40	0.76	0.56	0.53	0.64	0.62	0.47
France	0.90	53	0.66	0.65	0.68	0.49	0.78	0.79	0.80	0.82	0.80	0.77
Georgia	0.97	76	0.64	0.80	0.90	0.69	0.93	0.95	0.95	0.94	0.91	0.95
Germany	0.89	50	0.62	0.67	0.73	0.60	0.73	0.76	0.66	0.78	0.82	0.63
Hong Kong SAR	0.80	37	0.50	0.57	0.65	0.59	0.73	0.68	0.73	0.61	0.67	0.21
Hungary	0.90	53	0.72	0.69	0.79	0.71	0.77	0.81	0.55	0.72	0.80	0.67
Iran, Islamic Rep. of	0.91	57	0.66	0.60	0.72	0.76	0.85	0.82	0.83	0.82	0.78	0.69
Ireland	0.85	46	0.59	0.60	0.70	0.53	0.70	0.68	0.61	0.74	0.82	0.73
Israel	0.96	72	0.71	0.82	0.76	0.89	0.80	0.94	0.89	0.86	0.89	0.92
Italy	0.94	66	0.61	0.75	0.64	0.73	0.69	0.92	0.92	0.92	0.91	0.91
Kazakhstan	0.95	70	0.79	0.80	0.80	0.58	0.83	0.93	0.92	0.88	0.89	0.88
Kuwait	0.91	58	0.49	0.58	0.71	0.79	0.84	0.86	0.84	0.81	0.87	0.76
Latvia	0.83	42	0.63	0.59	0.82	0.37	0.68	0.74	0.64	0.64	0.69	0.56
Lithuania	0.79	36	0.52	0.48	0.69	0.58	0.70	0.60	0.61	0.64	0.61	0.49
Macao SAR	0.73	31	0.72	0.47	0.65	0.28	0.70	0.28	0.76	0.45	0.72	0.03
Malta	0.93	61	0.56	0.77	0.61	0.82	0.83	0.85	0.85	0.86	0.80	0.82
Morocco	0.95	68	0.63	0.74	0.84	0.86	0.90	0.90	0.88	0.86	0.84	0.75
Netherlands	0.85	43	0.39	0.46	0.78	0.59	0.82	0.75	0.54	0.80	0.79	0.43
New Zealand	0.88	49	0.64	0.66	0.63	0.52	0.77	0.75	0.75	0.75	0.79	0.74
Northern Ireland	0.74	34	0.30	0.47	0.76	0.55	0.77	0.53	0.53	0.63	0.62	0.48
Norway (5)	0.85	45	0.60	0.67	0.68	0.65	0.72	0.69	0.49	0.70	0.68	0.77
Oman	0.96	74	0.73	0.81	0.83	0.93	0.89	0.91	0.92	0.90	0.76	0.89
Poland	0.81	38	0.50	0.54	0.57	0.63	0.73	0.65	0.57	0.65	0.71	0.55
Portugal	0.89	53	0.49	0.67	0.77	0.67	0.75	0.79	0.76	0.77	0.77	0.81
Qatar	0.92	61	0.62	0.68	0.73	0.85	0.82	0.82	0.79	0.81	0.80	0.85
Russian Federation	0.77	33	0.60	0.62	0.64	0.60	0.58	0.53	0.60	0.56	0.59	0.35
Saudi Arabia	0.95	70	0.53	0.73	0.81	0.88	0.90	0.90	0.91	0.91	0.88	0.84
Singapore	0.89	50	0.75	0.72	0.76	0.64	0.78	0.67	0.72	0.71	0.82	0.46
Slovak Republic	0.89	51	0.65	0.74	0.70	0.67	0.76	0.80	0.67	0.65	0.75	0.74
Slovenia	0.90	54	0.61	0.67	0.73	0.76	0.77	0.83	0.80	0.76	0.76	0.64
South Africa	0.90	51	0.67	0.72	0.69	0.67	0.72	0.79	0.78	0.72	0.75	0.65
Spain	0.94	69	0.67	0.84	0.77	0.80	0.76	0.91	0.92	0.87	0.86	0.89
Sweden	0.85	44	0.50	0.63	0.76	0.47	0.72	0.78	0.55	0.72	0.76	0.68
Trinidad and Tobago	0.90	54	0.58	0.68	0.58	0.67	0.82	0.85	0.85	0.79	0.83	0.62
United Arab Emirates	0.93	64	0.66	0.68	0.69	0.86	0.84	0.89	0.86	0.82	0.81	0.87
United States	0.87	47	0.59	0.65	0.69	0.61	0.78	0.70	0.68	0.71	0.78	0.66
Buenos Aires, Argentina	0.86	49	0.46	0.58	0.65	0.69	0.75	0.80	0.79	0.73	0.77	0.69
Ontario, Canada	0.91	57	0.69	0.68	0.74	0.71	0.79	0.79	0.78	0.81	0.81	0.72
Quebec, Canada	0.83	43	0.58	0.58	0.73	0.35	0.74	0.74	0.72	0.69	0.74	0.58
Denmark (3)	0.84	43	0.60	0.55	0.68	0.51	0.78	0.67	0.49	0.77	0.75	0.65
Norway (4)	0.87	47	0.54	0.46	0.77	0.49	0.79	0.78	0.69	0.73	0.70	0.80



Australia  
Austria  
Azerbaijan  
Bahrain  
Belgium (Flemish)  
Belgium (French)  
Bulgaria  
Canada  
Chile  
Chinese Taipei  
Czech Republic  
Denmark  
Egypt  
England  
Finland  
France  
Georgia  
Germany  
Hong Kong SAR  
Hungary  
Iran, Islamic Rep. of  
Ireland  
Israel  
Italy  
Kazakhstan