

## PIRLS 2011

# Summary Statistics and Standard Errors for Proficiency in Reading

**Exhibit 1: PIRLS Summary Statistics and Standard Errors for Proficiency in Overall Reading**

Country	Sample Size	Overall Reading			
		Mean Proficiency	Standard Deviation	Jackknife Sampling Error	Overall Standard Error
Australia	6126	527.372	80.219	2.120	2.207
Austria	4670	528.876	63.376	1.900	1.953
Azerbaijan	4881	462.304	67.830	3.245	3.334
Belgium (French)	3727	506.124	64.673	2.856	2.882
Bulgaria	5261	531.832	82.092	4.003	4.053
Canada	23206	548.417	69.201	1.560	1.632
Chinese Taipei	4293	552.935	66.879	1.763	1.864
Colombia	3966	447.680	78.962	4.068	4.134
Croatia	4587	553.040	60.398	1.663	1.851
Czech Republic	4556	545.493	61.458	1.996	2.173
Denmark	4594	553.994	64.349	1.616	1.664
England	3927	551.525	82.158	2.518	2.624
Finland	4640	567.870	63.602	1.848	1.881
France	4438	520.001	68.097	2.420	2.569
Georgia	4796	487.756	75.843	2.897	3.067
Germany	4000	541.012	66.426	2.105	2.183
Hong Kong SAR	3875	570.543	60.576	2.200	2.250
Hungary	5204	539.275	78.255	2.794	2.921
Indonesia	4791	428.483	74.871	4.110	4.249
Iran, Islamic Rep. of	5758	457.364	85.257	2.768	2.830
Ireland	4524	551.604	74.651	2.219	2.259
Israel	4186	540.921	86.024	2.682	2.741
Italy	4189	541.325	65.899	1.982	2.239
Lithuania	4661	528.229	65.952	1.891	1.967
Malta	3598	476.934	96.796	1.289	1.397
Morocco	7805	310.459	104.555	3.262	3.888
Netherlands	3995	546.058	53.813	1.860	1.921
New Zealand	5644	531.021	88.275	1.801	1.907
Northern Ireland	3586	558.452	75.918	2.324	2.360
Norway	3190	507.046	61.460	1.826	1.936
Oman	10394	390.798	99.041	2.602	2.843

**Exhibit 1: PIRLS Summary Statistics and Standard Errors for Proficiency in Overall Reading (Continued)**

Country	Sample Size	Overall Reading			
		Mean Proficiency	Standard Deviation	Jackknife Sampling Error	Overall Standard Error
Poland	5005	525.573	72.875	1.949	2.069
Portugal	4085	540.837	65.854	2.533	2.641
Qatar	4120	424.845	104.960	3.429	3.548
Romania	4665	501.894	90.551	4.259	4.279
Russian Federation	4461	568.419	66.100	2.720	2.744
Saudi Arabia	4507	429.850	90.701	4.340	4.374
Singapore	6367	567.284	80.354	3.289	3.332
Slovak Republic	5630	535.085	69.086	2.728	2.752
Slovenia	4512	530.320	70.219	1.784	1.951
Spain	8580	513.060	68.265	2.126	2.320
Sweden	4622	541.675	65.325	2.044	2.054
Trinidad and Tobago	3948	470.850	88.446	3.806	3.841
United Arab Emirates	14618	438.593	101.364	2.203	2.230
United States	12726	556.375	73.431	1.489	1.537
<b>Sixth Grade Participants</b>					
Botswana	4197	418.993	91.776	3.958	4.129
Honduras	3893	449.564	79.474	4.768	4.832
Kuwait	3363	419.071	110.014	4.986	5.203
Morocco	7183	424.360	88.374	3.790	3.852
<b>Benchmarking Participants</b>					
Alberta, Canada	3789	548.059	70.809	2.839	2.855
Ontario, Canada	4561	551.843	72.509	2.459	2.581
Quebec, Canada	4244	537.611	61.560	2.054	2.141
Maltese - Malta	3548	457.144	87.653	1.389	1.455
Eng/Afr (5) - RSA	3515	420.993	116.792	7.183	7.257
Andalusia, Spain	4333	514.897	66.115	2.173	2.290
Abu Dhabi, UAE	4146	424.265	98.723	4.568	4.652
Dubai, UAE	6061	476.062	104.696	1.834	1.968
Florida, US	2598	568.897	71.666	2.817	2.900
<b>prePIRLS Countries</b>					
Botswana	4393	463.284	84.552	3.487	3.501
Colombia	3964	576.127	66.172	3.363	3.364
South Africa	15744	460.589	98.870	3.692	3.706

**Exhibit 2: PIRLS Summary Statistics and Standard Errors for Proficiency in Reading for Literary Purposes**

Country	Sample Size	Literary Purposes			
		Mean Proficiency	Standard Deviation	Jackknife Sampling Error	Overall Standard Error
Australia	6126	527.276	83.183	2.207	2.240
Austria	4670	532.747	67.409	2.115	2.247
Azerbaijan	4881	461.464	71.016	2.946	3.039
Belgium (French)	3727	507.912	65.966	2.849	2.925
Bulgaria	5261	531.906	89.909	4.370	4.422
Canada	23206	553.231	73.892	1.694	1.736
Chinese Taipei	4293	541.714	68.434	1.744	1.912
Colombia	3966	452.528	82.578	4.114	4.131
Croatia	4587	555.151	66.961	1.881	1.897
Czech Republic	4556	544.501	60.197	2.016	2.113
Denmark	4594	555.104	67.195	1.661	1.730
England	3927	552.580	85.378	2.655	2.779
Finland	4640	568.499	63.951	1.874	1.966
France	4438	521.208	71.289	2.577	2.607
Georgia	4796	491.366	81.306	2.905	2.949
Germany	4000	544.524	65.363	2.124	2.233
Hong Kong SAR	3875	564.957	67.459	2.445	2.534
Hungary	5204	541.711	78.902	2.796	2.831
Indonesia	4791	418.318	78.331	3.948	4.033
Iran, Islamic Rep. of	5758	459.032	87.377	2.771	2.885
Ireland	4524	557.136	80.719	2.436	2.680
Israel	4186	541.614	93.143	2.656	2.679
Italy	4189	538.569	67.850	1.945	1.969
Lithuania	4661	528.703	66.572	1.811	1.828
Malta	3598	470.268	102.777	1.422	1.697
Morocco	7805	298.948	110.853	3.431	3.630
Netherlands	3995	544.674	56.773	2.056	2.358
New Zealand	5644	533.274	93.919	2.022	2.319
Northern Ireland	3586	563.545	80.962	2.372	2.682
Norway	3190	507.651	61.223	1.763	1.987
Oman	10394	379.435	100.965	2.585	2.775
Poland	5005	530.564	73.365	1.893	2.052
Portugal	4085	537.836	68.402	2.545	2.770
Qatar	4120	415.110	108.267	3.803	3.903
Romania	4665	503.982	92.656	4.165	4.221
Russian Federation	4461	567.244	69.402	2.676	2.701
Saudi Arabia	4507	422.007	95.300	4.425	4.625
Singapore	6367	566.952	85.081	3.401	3.531
Slovak Republic	5630	539.825	72.284	2.871	2.944
Slovenia	4512	532.290	71.357	2.035	2.377

**Exhibit 2: PIRLS Summary Statistics and Standard Errors for Proficiency in Reading for Literary Purposes (Continued)**

Country	Sample Size	Literary Purposes			
		Mean Proficiency	Standard Deviation	Jackknife Sampling Error	Overall Standard Error
Spain	8580	515.681	74.184	2.084	2.134
Sweden	4622	546.869	67.674	2.213	2.420
Trinidad and Tobago	3948	467.450	95.606	4.018	4.130
United Arab Emirates	14618	427.446	104.111	2.299	2.351
United States	12726	562.597	80.484	1.652	1.828
<b>Sixth Grade Participants</b>					
Botswana	4197	383.933	108.904	4.892	5.103
Honduras	3893	449.193	85.994	5.164	5.243
Kuwait	3363	417.441	111.381	4.676	4.896
Morocco	7183	416.342	94.551	4.087	4.142
<b>Benchmarking Participants</b>					
Alberta, Canada	3789	552.286	75.442	2.998	3.040
Ontario, Canada	4561	558.109	77.743	2.557	2.609
Quebec, Canada	4244	539.093	65.111	1.952	1.987
Maltese - Malta	3548	457.529	96.943	1.520	1.731
Eng/Afr (5) - RSA	3515	414.001	124.646	7.496	7.522
Andalusia, Spain	4333	518.055	71.236	2.096	2.404
Abu Dhabi, UAE	4146	413.580	101.526	4.896	4.950
Dubai, UAE	6061	465.677	108.861	2.093	2.414
Florida, US	2598	576.947	80.670	3.135	3.280
<b>prePIRLS Countries</b>					
Botswana	4393	459.351	83.786	3.382	3.473
Colombia	3964	578.198	65.484	3.223	3.302
South Africa	15744	462.067	102.650	3.864	3.912

**Exhibit 3: PIRLS Summary Statistics and Standard Errors for Proficiency in Reading for Informational Purposes**

Country	Sample Size	Informational Purposes			
		Mean Proficiency	Standard Deviation	Jackknife Sampling Error	Overall Standard Error
Australia	6126	527.948	81.200	2.057	2.204
Austria	4670	525.914	65.673	1.989	2.041
Azerbaijan	4881	460.059	75.964	3.892	3.925
Belgium (French)	3727	503.558	67.369	3.100	3.167
Bulgaria	5261	532.794	79.655	4.009	4.030
Canada	23206	545.270	70.822	1.602	1.697
Chinese Taipei	4293	565.393	66.294	1.671	1.763
Colombia	3966	440.385	80.948	4.263	4.420
Croatia	4587	551.848	58.097	1.619	1.641
Czech Republic	4556	544.873	66.208	1.953	2.011
Denmark	4594	553.175	66.283	1.585	1.834
England	3927	549.155	82.663	2.450	2.560
Finland	4640	567.629	66.553	1.949	2.013
France	4438	519.150	69.541	2.576	2.623
Georgia	4796	482.479	77.328	2.963	3.149
Germany	4000	537.546	71.670	2.321	2.459
Hong Kong SAR	3875	577.517	57.472	2.051	2.173
Hungary	5204	535.880	82.237	2.879	2.982
Indonesia	4791	438.800	77.851	4.431	4.505
Iran, Islamic Rep. of	5758	454.667	86.978	2.704	2.851
Ireland	4524	549.044	73.389	2.219	2.319
Israel	4186	540.654	84.532	2.556	2.607
Italy	4189	544.967	68.216	1.890	1.954
Lithuania	4661	527.114	67.906	1.994	2.035
Malta	3598	484.597	92.577	1.338	1.462
Morocco	7805	320.841	102.449	3.326	3.578
Netherlands	3995	547.317	54.718	1.801	1.921
New Zealand	5644	529.574	87.576	1.912	2.002
Northern Ireland	3586	554.822	74.483	2.324	2.637
Norway	3190	505.098	65.756	2.122	2.282
Oman	10394	403.686	100.769	2.735	3.034
Poland	5005	518.963	79.594	2.211	2.353
Portugal	4085	543.724	68.400	2.524	2.603
Qatar	4120	436.077	104.754	3.246	3.421
Romania	4665	500.240	93.768	4.486	4.598
Russian Federation	4461	569.821	65.495	2.554	2.669
Saudi Arabia	4507	439.893	89.998	4.379	4.535
Singapore	6367	569.342	78.386	3.239	3.264
Slovak Republic	5630	530.437	72.139	2.900	2.957
Slovenia	4512	527.773	72.709	1.942	1.965

**Exhibit 3: PIRLS Summary Statistics and Standard Errors for Proficiency in Reading for Informational Purposes (Continued)**

Country	Sample Size	Informational Purposes			
		Mean Proficiency	Standard Deviation	Jackknife Sampling Error	Overall Standard Error
Spain	8580	512.012	67.202	2.001	2.046
Sweden	4622	536.960	68.668	2.134	2.362
Trinidad and Tobago	3948	473.707	86.678	3.621	3.800
United Arab Emirates	14618	452.371	100.485	2.016	2.166
United States	12726	552.616	73.334	1.428	1.638
<b>Sixth Grade Participants</b>					
Botswana	4197	456.386	78.294	3.124	3.455
Honduras	3893	447.551	79.787	4.675	4.807
Kuwait	3363	420.730	115.008	5.184	5.552
Morocco	7183	433.180	85.598	3.935	3.959
<b>Benchmarking Participants</b>					
Alberta, Canada	3789	544.559	71.582	2.698	2.763
Ontario, Canada	4561	548.603	74.076	2.539	2.719
Quebec, Canada	4244	536.150	63.438	2.227	2.401
Maltese - Malta	3548	454.958	84.312	1.273	2.024
Eng/Afr (5) - RSA	3515	430.054	112.588	6.625	6.717
Andalusia, Spain	4333	512.476	65.570	2.142	2.275
Abu Dhabi, UAE	4146	437.329	98.659	4.230	4.314
Dubai, UAE	6061	488.002	102.719	1.955	2.397
Florida, US	2598	563.875	71.013	2.793	2.830
<b>prePIRLS Countries</b>					
Botswana	4393	466.004	87.116	3.458	3.579
Colombia	3964	575.940	70.193	3.564	3.630
South Africa	15744	457.193	100.230	3.692	3.734

**Exhibit 4: PIRLS Summary Statistics and Standard Errors for Proficiency in Retrieving and Straightforward Inferencing Processes**

Country	Sample Size	Retrieving and Straightforward Inferencing Processes			
		Mean Proficiency	Standard Deviation	Jackknife Sampling Error	Overall Standard Error
Australia	6126	526.550	83.043	2.258	2.607
Austria	4670	539.164	71.487	1.972	2.253
Azerbaijan	4881	468.804	68.957	3.187	3.235
Belgium (French)	3727	511.795	66.594	2.898	2.916
Bulgaria	5261	532.100	84.482	3.966	4.040
Canada	23206	543.440	69.715	1.453	1.472
Chinese Taipei	4293	551.476	69.952	1.703	1.798
Colombia	3966	450.220	80.423	4.045	4.146
Croatia	4587	554.146	63.847	1.763	2.010
Czech Republic	4556	548.076	67.535	2.186	2.403
Denmark	4594	556.427	72.764	1.830	1.891
England	3927	545.879	83.603	2.502	2.588
Finland	4640	569.336	68.539	1.926	1.987
France	4438	527.941	69.546	2.364	2.410
Georgia	4796	484.065	76.125	2.960	2.979
Germany	4000	548.397	72.697	2.276	2.342
Hong Kong SAR	3875	562.075	61.145	2.008	2.017
Hungary	5204	537.128	82.672	2.740	2.760
Indonesia	4791	430.712	75.632	4.211	4.293
Iran, Islamic Rep. of	5758	457.514	88.830	2.825	2.878
Ireland	4524	551.747	77.449	2.289	2.811
Israel	4186	538.200	86.232	2.674	2.857
Italy	4189	539.481	68.474	1.821	1.898
Lithuania	4661	530.173	68.956	1.892	1.948
Malta	3598	479.330	99.815	1.497	1.866
Morocco	7805	324.823	97.989	3.132	3.163
Netherlands	3995	548.929	59.067	2.170	2.187
New Zealand	5644	527.354	89.691	1.880	1.980
Northern Ireland	3586	555.247	78.145	2.395	2.492
Norway	3190	511.218	63.405	1.756	1.812
Oman	10394	394.940	96.952	2.399	2.440
Poland	5005	526.320	76.091	1.936	2.082
Portugal	4085	539.092	68.752	2.322	2.752
Qatar	4120	423.852	105.773	3.499	3.586
Romania	4665	499.615	91.039	4.213	4.246
Russian Federation	4461	565.358	69.430	2.629	2.734
Saudi Arabia	4507	433.409	92.748	4.591	4.647
Singapore	6367	564.818	83.609	3.229	3.372
Slovak Republic	5630	534.310	71.717	2.858	2.910
Slovenia	4512	532.507	76.395	1.842	1.948

**Exhibit 4: PIRLS Summary Statistics and Standard Errors for Proficiency in Retrieving and Straightforward Inferencing Processes (Continued)**

Country	Sample Size	Retrieving and Straightforward Inferencing Processes			
		Mean Proficiency	Standard Deviation	Jackknife Sampling Error	Overall Standard Error
Spain	8580	516.099	70.582	1.956	2.086
Sweden	4622	542.779	66.337	2.023	2.061
Trinidad and Tobago	3948	474.227	88.867	3.727	3.768
United Arab Emirates	14618	438.959	102.483	2.091	2.275
United States	12726	549.210	74.579	1.474	1.524
<b>Sixth Grade Participants</b>					
Botswana	4197	416.609	96.541	3.997	4.114
Honduras	3893	452.486	81.359	4.869	4.916
Kuwait	3363	422.198	104.561	4.389	4.437
Morocco	7183	430.129	88.716	3.789	3.823
<b>Benchmarking Participants</b>					
Alberta, Canada	3789	541.676	71.052	2.830	2.885
Ontario, Canada	4561	544.819	73.178	2.383	2.479
Quebec, Canada	4244	538.045	63.215	1.998	2.086
Maltese - Malta	3548	460.643	89.457	1.338	2.356
Eng/Afr (5) - RSA	3515	420.491	118.240	7.248	7.253
Andalusia, Spain	4333	517.845	68.345	2.093	2.260
Abu Dhabi, UAE	4146	423.884	99.445	4.486	4.515
Dubai, UAE	6061	477.513	105.779	1.810	2.216
Florida, US	2598	563.520	74.361	2.692	2.863
<b>prePIRLS Countries</b>					
Botswana	4393	463.768	88.589	3.494	3.529
Colombia	3964	577.253	70.369	3.423	3.816
South Africa	15744	460.807	101.597	3.744	3.754



**Exhibit 5: PIRLS Summary Statistics and Standard Errors for Proficiency in Interpreting, Integrating, and Evaluating Processes**

Country	Sample Size	Interpreting, Integrating, and Evaluating Processes			
		Mean Proficiency	Standard Deviation	Jackknife Sampling Error	Overall Standard Error
Australia	6126	528.997	79.241	2.156	2.208
Austria	4670	520.602	64.620	1.886	1.970
Azerbaijan	4881	448.972	76.054	3.621	3.730
Belgium (French)	3727	499.300	67.361	3.005	3.187
Bulgaria	5261	532.070	83.091	3.899	3.934
Canada	23206	553.552	69.323	1.501	1.534
Chinese Taipei	4293	554.755	66.004	1.752	1.857
Colombia	3966	442.201	82.141	4.531	4.608
Croatia	4587	552.455	60.523	1.682	1.720
Czech Republic	4556	543.971	61.892	1.941	2.009
Denmark	4594	553.085	61.948	1.433	1.545
England	3927	555.390	82.633	2.528	2.680
Finland	4640	567.235	62.729	1.730	1.761
France	4438	511.503	73.250	2.734	2.779
Georgia	4796	490.994	78.788	3.101	3.116
Germany	4000	535.943	65.711	2.107	2.174
Hong Kong SAR	3875	577.823	60.901	2.363	2.384
Hungary	5204	542.141	76.782	2.638	2.681
Indonesia	4791	422.887	80.902	4.427	4.704
Iran, Islamic Rep. of	5758	456.496	84.014	2.813	3.034
Ireland	4524	553.197	74.661	2.182	2.226
Israel	4186	543.370	87.979	2.855	2.998
Italy	4189	543.947	65.388	1.850	1.961
Lithuania	4661	527.446	66.667	1.807	1.952
Malta	3598	474.617	96.420	1.437	1.796
Morocco	7805	288.256	112.668	3.700	4.251
Netherlands	3995	543.338	53.683	1.935	1.981
New Zealand	5644	535.107	87.505	1.819	1.921
Northern Ireland	3586	562.086	75.200	2.336	2.468
Norway	3190	501.657	63.839	1.89	2.584
Oman	10394	382.085	106.323	2.792	2.990
Poland	5005	524.800	73.150	1.889	2.057
Portugal	4085	542.160	66.653	2.555	2.580
Qatar	4120	425.466	107.206	3.621	3.760
Romania	4665	502.654	93.455	4.482	4.537
Russian Federation	4461	570.801	65.401	2.548	2.583
Saudi Arabia	4507	423.743	93.796	4.437	4.589
Singapore	6367	570.249	80.015	3.289	3.434
Slovak Republic	5630	535.620	68.798	2.665	2.709
Slovenia	4512	529.654	69.102	1.975	2.214

**Exhibit 5: PIRLS Summary Statistics and Standard Errors for Proficiency in Interpreting, Integrating, and Evaluating Processes (Continued)**

Country	Sample Size	Interpreting, Integrating, and Evaluating Processes			
		Mean Proficiency	Standard Deviation	Jackknife Sampling Error	Overall Standard Error
Spain	8580	509.674	70.386	2.057	2.120
Sweden	4622	540.430	66.967	2.072	2.141
Trinidad and Tobago	3948	463.598	94.063	3.947	4.002
United Arab Emirates	14618	437.891	102.148	2.136	2.267
United States	12726	562.676	71.580	1.483	1.551
<b>Sixth Grade Participants</b>					
Botswana	4197	421.199	89.855	3.766	3.922
Honduras	3893	442.664	83.211	4.799	4.966
Kuwait	3363	414.220	117.882	5.158	5.359
Morocco	7183	411.948	95.430	3.739	3.959
<b>Benchmarking Participants</b>					
Alberta, Canada	3789	553.962	70.177	2.869	3.163
Ontario, Canada	4561	559.409	72.588	2.494	2.566
Quebec, Canada	4244	537.863	61.990	2.005	2.257
Maltese - Malta	3548	451.387	91.132	1.325	1.610
Eng/Afr (5) - RSA	3515	421.633	116.637	6.815	6.953
Andalusia, Spain	4333	510.304	68.567	2.262	2.368
Abu Dhabi, UAE	4146	425.027	98.989	4.542	4.623
Dubai, UAE	6061	474.072	106.454	1.859	2.109
Florida, US	2598	574.108	70.262	2.771	2.819
<b>prePIRLS Countries</b>					
Botswana	4393	463.594	81.838	3.335	3.481
Colombia	3964	577.550	65.891	3.318	3.449
South Africa	15744	458.939	99.077	3.679	3.805