

## Exhibit 1.2: Multiple Comparisons of Average Achievement

Because there often were relatively small differences in achievement between countries, Exhibit 1.2 shows whether the differences in average achievement among the countries are statistically significant. The top part of the exhibit shows the results for ePIRLS. Singapore was the top-performing country, followed by Norway and Ireland, which had higher achievement than all the other participating countries except Singapore. Sweden, Denmark, and the United States also performed very well on ePIRLS.

For comparison purposes, the bottom part of the exhibit shows the PIRLS comparisons for the ePIRLS participants. In this case, Singapore was the top-performing country, followed by Ireland, Norway, Chinese Taipei, and Sweden.

**Exhibit 1.2: Multiple Comparisons of Average Achievement**

Note: Results based on students who participated in both PIRLS and ePIRLS.

Instructions: Read across the row for a country to compare performance with the countries listed along the top of the chart. The symbols indicate whether the average achievement of the country in the row is significantly lower than that of the comparison country, significantly higher than that of the comparison country, or if there is no statistically significant difference between the average achievement of the two countries.

ePIRLS Online Informational Reading																	
Country	Average ePIRLS Scale Score	Singapore	Norway (5)	Ireland	Sweden	Denmark	United States	Chinese Taipei	Canada	Israel	Italy	Slovenia	Portugal	Georgia	United Arab Emirates	Benchmarking Participants	
		Dubai, UAE	Abu Dhabi, UAE														
Singapore	588 (3.0)																
Norway (5)	568 (2.2)	⬆															
Ireland	567 (2.5)	⬆															
Sweden	559 (2.3)	⬆															
Denmark	558 (2.2)	⬆															
United States	557 (2.6)	⬆															
Chinese Taipei	546 (2.0)	⬆															
Canada	543 (3.2)	⬆															
Israel	536 (2.3)	⬆															
Italy	532 (2.1)	⬆															
Slovenia	525 (1.9)	⬆															
Portugal	522 (2.2)	⬆															
Georgia	477 (3.3)	⬆															
United Arab Emirates	468 (2.2)	⬆															
<b>Benchmarking Participants</b>																	
Dubai, UAE	528 (1.6)																
Abu Dhabi, UAE	431 (4.1)																

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

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

PIRLS																	
Country	Average PIRLS Scale Score	Singapore	Ireland	Norway (5)	Chinese Taipei	Sweden	United States	Italy	Denmark	Canada	Slovenia	Israel	Portugal	Georgia	United Arab Emirates	Benchmarking Participants	
		Dubai, UAE	Abu Dhabi, UAE														
Singapore	576 (3.1)																
Ireland	566 (2.8)	⬆															
Norway (5)	560 (2.3)	⬆															
Chinese Taipei	559 (2.0)	⬆															
Sweden	555 (2.4)	⬆															
United States	550 (2.9)	⬆															
Italy	548 (2.4)	⬆															
Denmark	548 (2.3)	⬆															
Canada	543 (3.3)	⬆															
Slovenia	543 (2.0)	⬆															
Israel	532 (2.5)	⬆															
Portugal	528 (2.3)	⬆															
Georgia	489 (3.1)	⬆															
United Arab Emirates	451 (2.7)	⬆															
<b>Benchmarking Participants</b>																	
Dubai, UAE	516 (1.9)																
Abu Dhabi, UAE	414 (4.8)																

- ⬆ 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.