

Exhibit 6.10: Students' Sense of School Belonging

Reported by Students

Students were scored according to their agreement to seven statements about their *Sense of School Belonging*. Students with a **High Sense of School Belonging** had a score on the scale of at least 9.1, which corresponds to their “agreeing a lot” to four of the seven statements and “agreeing a little” to each of the other three statements, on average. Students with **Little Sense of School Belonging** had a score no higher than 6.8, which corresponds to their “disagreeing a little” to four of the seven statements and “agreeing a little” to each of the other three statements, on average. All other students had a **Sense of School Belonging**.

Country	High Sense of School Belonging		Sense of School Belonging		Little Sense of School Belonging		Average Scale Score
	Percent of Students	Average Achievement	Percent of Students	Average Achievement	Percent of Students	Average Achievement	
Indonesia	92 (0.5)	403 (3.6)	7 (0.5)	369 (7.9)	1 (0.2)	~ ~	11.5 (0.04)
Portugal	88 (0.9)	543 (2.1)	11 (0.8)	529 (5.4)	1 (0.2)	~ ~	11.3 (0.05)
Morocco	86 (0.8)	386 (3.6)	12 (0.7)	352 (6.5)	2 (0.3)	~ ~	11.3 (0.05)
Bulgaria	82 (1.2)	528 (5.3)	16 (1.1)	519 (5.7)	2 (0.3)	~ ~	10.9 (0.06)
Turkey	81 (1.0)	493 (3.0)	18 (0.9)	446 (5.7)	1 (0.2)	~ ~	10.8 (0.05)
Kazakhstan	80 (1.3)	548 (4.6)	19 (1.3)	530 (5.5)	1 (0.1)	~ ~	10.9 (0.07)
Jordan	79 (1.3)	397 (3.3)	17 (1.2)	376 (5.3)	3 (0.3)	347 (10.4)	10.9 (0.08)
Oman	79 (0.9)	432 (2.8)	18 (0.7)	413 (3.7)	4 (0.3)	373 (7.8)	10.7 (0.05)
Spain	78 (1.1)	507 (2.4)	19 (0.9)	502 (3.4)	3 (0.3)	484 (7.9)	10.5 (0.06)
Norway (5)	75 (1.1)	553 (2.6)	22 (1.0)	538 (3.6)	2 (0.3)	~ ~	10.5 (0.05)
Ireland	73 (1.2)	553 (2.3)	23 (1.1)	537 (3.5)	4 (0.4)	519 (7.8)	10.2 (0.05)
Serbia	73 (1.2)	520 (4.0)	24 (1.1)	520 (4.2)	3 (0.3)	501 (8.8)	10.3 (0.06)
Iran, Islamic Rep. of	71 (1.2)	427 (3.7)	26 (1.1)	451 (4.4)	3 (0.3)	399 (15.2)	10.2 (0.07)
Northern Ireland	71 (1.3)	576 (3.3)	25 (1.1)	561 (5.0)	3 (0.5)	523 (10.4)	10.2 (0.06)
Lithuania	71 (1.1)	540 (2.7)	26 (1.0)	528 (3.3)	3 (0.3)	500 (10.6)	10.1 (0.05)
Kuwait	71 (1.1)	355 (4.6)	25 (1.0)	355 (6.9)	4 (0.4)	329 (10.7)	10.3 (0.06)
Saudi Arabia	71 (1.3)	396 (4.3)	23 (1.0)	369 (4.9)	6 (0.7)	349 (11.0)	10.4 (0.07)
England	71 (1.4)	551 (3.3)	25 (1.2)	538 (3.9)	4 (0.4)	505 (7.5)	10.2 (0.06)
Chile	70 (1.2)	466 (2.5)	24 (0.9)	447 (3.3)	6 (0.5)	430 (6.8)	10.2 (0.06)
Finland	68 (1.3)	539 (2.2)	28 (1.1)	531 (3.1)	3 (0.4)	509 (6.0)	10.0 (0.05)
Russian Federation	68 (1.3)	568 (3.6)	29 (1.2)	558 (4.4)	3 (0.3)	548 (9.3)	10.0 (0.06)
South Africa (5)	68 (1.2)	391 (3.4)	27 (0.9)	356 (5.0)	5 (0.4)	330 (8.0)	10.1 (0.07)
Netherlands	68 (1.4)	534 (1.8)	28 (1.2)	523 (2.5)	4 (0.4)	518 (6.9)	10.0 (0.06)
New Zealand	67 (1.0)	493 (2.6)	29 (0.9)	492 (3.4)	4 (0.3)	459 (8.3)	10.0 (0.05)
Bahrain	67 (0.8)	457 (1.8)	27 (0.8)	447 (2.7)	6 (0.4)	420 (4.8)	10.0 (0.04)
Hungary	66 (1.0)	535 (3.3)	31 (0.9)	523 (3.9)	4 (0.3)	492 (8.9)	9.9 (0.05)
Canada	66 (0.9)	516 (2.1)	30 (0.8)	507 (3.0)	5 (0.3)	488 (5.9)	10.0 (0.04)
Sweden	65 (1.2)	522 (2.8)	32 (1.1)	515 (3.8)	3 (0.3)	495 (8.3)	9.9 (0.06)
United States	64 (0.8)	548 (2.3)	29 (0.6)	532 (2.6)	7 (0.4)	506 (4.5)	9.9 (0.04)
Belgium (Flemish)	64 (1.2)	550 (2.2)	33 (1.1)	541 (2.8)	4 (0.3)	519 (4.4)	9.8 (0.06)
United Arab Emirates	64 (0.8)	464 (2.5)	31 (0.7)	436 (3.3)	6 (0.3)	415 (5.7)	9.9 (0.04)
Italy	63 (1.3)	510 (2.8)	33 (1.0)	507 (3.2)	5 (0.5)	477 (10.0)	9.7 (0.05)
Cyprus	62 (1.3)	527 (2.7)	30 (0.9)	525 (3.4)	8 (0.7)	511 (6.9)	9.8 (0.06)
Denmark	62 (1.3)	547 (3.0)	33 (1.1)	530 (3.0)	4 (0.4)	512 (8.6)	9.8 (0.06)
Australia	62 (1.2)	524 (3.7)	33 (1.0)	511 (3.2)	5 (0.4)	483 (7.3)	9.8 (0.05)
Slovak Republic	61 (1.3)	495 (3.0)	35 (1.1)	507 (2.7)	4 (0.4)	488 (7.0)	9.7 (0.05)
Qatar	60 (1.1)	451 (3.5)	30 (0.9)	431 (4.4)	9 (0.8)	409 (6.4)	9.7 (0.06)
Germany	57 (1.3)	528 (2.4)	36 (1.1)	527 (2.7)	7 (0.6)	506 (4.9)	9.5 (0.06)
Croatia	57 (1.5)	505 (2.0)	40 (1.3)	498 (2.9)	3 (0.4)	502 (7.9)	9.5 (0.06)
Singapore	56 (0.8)	622 (3.9)	39 (0.7)	615 (4.2)	6 (0.4)	596 (6.7)	9.5 (0.03)
Slovenia	55 (1.5)	519 (2.2)	39 (1.1)	523 (2.7)	6 (0.6)	518 (5.3)	9.5 (0.06)
Georgia	55 (1.3)	473 (4.2)	43 (1.3)	462 (4.0)	1 (0.3)	~ ~	9.7 (0.06)
Korea, Rep. of	52 (1.3)	614 (2.5)	45 (1.2)	603 (2.4)	3 (0.4)	587 (9.1)	9.5 (0.06)
France	51 (1.3)	490 (3.0)	45 (1.2)	489 (3.8)	3 (0.3)	453 (7.2)	9.3 (0.05)
Czech Republic	50 (1.4)	526 (2.7)	45 (1.3)	533 (2.8)	5 (0.7)	509 (6.7)	9.2 (0.05)
Poland	47 (1.4)	533 (2.4)	46 (1.2)	539 (2.6)	7 (0.6)	523 (5.7)	9.1 (0.05)
Chinese Taipei	46 (1.1)	603 (2.2)	46 (0.9)	595 (2.2)	8 (0.5)	572 (5.2)	9.1 (0.04)
Hong Kong SAR	46 (1.6)	624 (3.6)	43 (1.2)	611 (3.0)	11 (0.9)	593 (3.8)	9.0 (0.07)
Japan	41 (1.2)	604 (2.4)	52 (1.0)	589 (2.1)	8 (0.6)	565 (4.8)	8.9 (0.05)
International Avg.	66 (0.2)	510 (0.4)	30 (0.1)	499 (0.6)	4 (0.1)	482 (1.2)	

This TIMSS questionnaire scale was established in 2015 based on the combined response distribution of all countries that participated in TIMSS 2015. To provide a point of reference for country comparisons, the scale centerpoint of 10 was located at the mean of the combined distribution. The units of the scale were chosen so that 2 scale score points corresponded to the standard deviation of the distribution.

() Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.

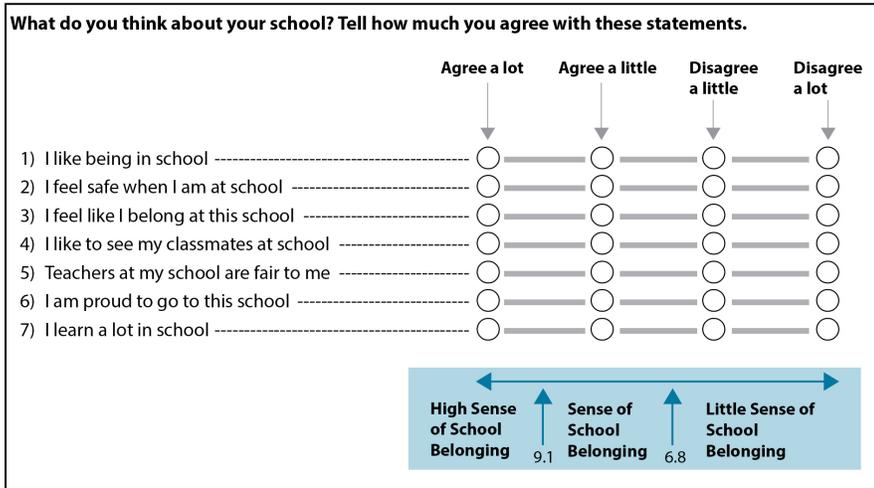
A tilde (~) indicates insufficient data to report achievement.

An “r” indicates data are available for at least 70% but less than 85% of the students.

SOURCE: IEA's Trends in International Mathematics and Science Study – TIMSS 2015

Exhibit 6.10: Students' Sense of School Belonging (Continued)

Country	High Sense of School Belonging		Sense of School Belonging		Little Sense of School Belonging		Average Scale Score
	Percent of Students	Average Achievement	Percent of Students	Average Achievement	Percent of Students	Average Achievement	
Benchmarking Participants							
Norway (4)	80 (1.4)	497 (2.1)	18 (1.3)	484 (5.0)	2 (0.4)	~ ~	10.7 (0.07)
Dubai, UAE	69 (0.8)	521 (1.9)	26 (0.8)	496 (2.7)	4 (0.3)	452 (5.5)	10.2 (0.03)
Florida, US	65 (1.5)	556 (5.4)	29 (1.2)	534 (5.3)	6 (0.7)	510 (8.1)	10.0 (0.08)
Ontario, Canada	64 (1.4)	518 (2.4)	30 (1.3)	505 (3.2)	6 (0.5)	492 (5.5)	9.9 (0.06)
Buenos Aires, Argentina	64 (1.1)	437 (3.1)	30 (0.8)	438 (3.7)	6 (0.5)	433 (5.5)	9.9 (0.05)
Quebec, Canada	63 (1.4)	539 (4.4)	33 (1.2)	533 (5.2)	4 (0.6)	518 (10.9)	9.8 (0.06)
Abu Dhabi, UAE	58 (1.8)	432 (5.5)	35 (1.4)	408 (6.4)	7 (0.6)	391 (8.1)	9.7 (0.08)



SOURCE: IEA's Trends in International Mathematics and Science Study – TIMSS 2015