## Exhibit 6.9: Challenges Facing Teachers

## Reported by Teachers

Students were scored according to their teachers' responses concerning eight challenging conditions on the Challenges Facing Teachers scale. Students whose teachers faced Few Challenges had a score on the scale of at least 10.3, which corresponds to their teachers "disagreeing a little" with four of eight statements and "agreeing a little" with the other four, on average. Students whose teachers faced Many Challenges had a score no higher than 6.7, which corresponds to their teachers reporting "agreeing a lot" with four of eight statements and "agreeing a little" with the other four, on average. All other students had teachers that reported facing Some Challenges.

| Country |  | Few Challenges |  | Some Challenges |  | Many Challenges |  | Average Scale Score |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Percent of Students | Average Achievement | Percent of Students | Average Achievement | Percent of Students | Average Achievement |  |
| Georgia |  | 84 (1.9) | 443 (3.3) | 16 (1.9) | 444 (4.4) | 0 (0.2) | ~ ~ | 11.7 (0.09) |
| Russian Federation |  | 77 (1.8) | 545 (4.5) | 22 (1.7) | 541 (5.5) | 1 (0.3) | $\sim$ | 11.2 (0.07) |
| Turkey |  | 77 (2.9) | 491 (4.4) | 22 (2.9) | 499 (9.2) | 1 (0.8) | $\sim \sim$ | 11.5 (0.14) |
| Kazakhstan |  | 76 (2.0) | 535 (4.7) | 24 (2.0) | 526 (7.5) | 0 (0.1) | $\sim \sim$ | 10.9 (0.06) |
| Lithuania |  | 70 (2.0) | 517 (3.0) | 28 (1.8) | 523 (3.7) | 1 (0.6) | ~ ~ | 11.1 (0.09) |
| Lebanon |  | 63 (4.1) | 401 (8.0) | 33 (4.2) | 395 (9.3) | 4 (1.5) | 371 (28.9) | 11.1 (0.19) |
| Chinese Taipei |  | 61 (3.8) | 564 (3.4) | 38 (3.8) | 577 (4.5) | 1 (0.7) | ~ ~ | 10.6 (0.15) |
| Kuwait |  | 61 (4.2) | 410 (6.5) | 35 (4.2) | 410 (13.1) | 4 (1.5) | 381 (29.7) | 10.6 (0.18) |
| Qatar |  | 60 (2.9) | 463 (5.0) | 38 (3.0) | 445 (5.9) | 2 (0.7) | ~ ~ | 10.8 (0.09) |
| Italy |  | 59 (3.5) | 495 (3.8) | 41 (3.5) | 504 (4.2) | 0 (0.4) | $\sim \sim$ | 10.5 (0.12) |
| United Arab Emirates | $r$ | 52 (2.5) | 485 (4.1) | 43 (2.6) | 469 (4.9) | 5 (0.9) | 441 (10.0) | 10.4 (0.08) |
| Morocco |  | 51 (2.3) | 400 (3.5) | 46 (2.3) | 387 (2.9) | 3 (0.8) | 393 (6.9) | 10.3 (0.09) |
| Japan |  | 48 (3.8) | 574 (2.5) | 47 (4.0) | 566 (2.8) | 5 (1.9) | 584 (15.4) | 9.9 (0.12) |
| Egypt |  | 48 (3.3) | 385 (6.3) | 46 (3.5) | 360 (6.4) | 6 (2.0) | 336 (17.4) | 10.0 (0.12) |
| United States | $r$ | 45 (2.5) | 536 (4.4) | 47 (2.6) | 529 (4.9) | 8 (1.5) | 536 (12.0) | 9.9 (0.13) |
| Saudi Arabia |  | 45 (4.0) | 391 (6.3) | 50 (4.2) | 393 (6.7) | 5 (2.0) | 383 (16.3) | 10.0 (0.17) |
| Oman |  | 42 (3.4) | 460 (4.2) | 54 (3.5) | 452 (4.3) | 3 (0.8) | 456 (10.3) | 10.0 (0.11) |
| Bahrain |  | 42 (3.2) | 470 (5.2) | 54 (3.0) | 463 (3.7) | 3 (1.7) | 452 (19.3) | 10.1 (0.13) |
| Ireland |  | 42 (3.5) | 533 (5.1) | 50 (3.6) | 531 (4.0) | 8 (1.4) | 526 (7.5) | 9.8 (0.14) |
| New Zealand |  | 41 (3.4) | 517 (4.9) | 53 (3.9) | 517 (5.5) | 7 (2.3) | 502 (15.9) | 9.8 (0.13) |
| Jordan |  | 41 (3.7) | 433 (5.4) | 55 (3.8) | 422 (4.9) | 4 (1.2) | 411 (12.2) | 9.9 (0.13) |
| Israel |  | 39 (3.4) | 510 (6.8) | 51 (3.6) | 509 (5.9) | 10 (2.3) | 496 (15.8) | 9.6 (0.15) |
| Iran, Islamic Rep. of |  | 39 (3.3) | 449 (6.7) | 57 (3.2) | 459 (4.6) | 3 (1.3) | 494 (23.6) | 9.9 (0.11) |
| Malta |  | 37 (0.4) | 489 (2.4) | 52 (0.4) | 479 (1.8) | 11 (0.3) | 459 (2.9) | 9.4 (0.02) |
| Hong Kong SAR |  | 36 (3.9) | 535 (9.2) | 59 (4.2) | 551 (4.5) | 5 (2.0) | 546 (12.3) | 9.5 (0.13) |
| Hungary |  | 35 (2.1) | 520 (5.1) | 55 (2.3) | 525 (4.3) | 10 (1.6) | 550 (6.7) | 9.4 (0.11) |
| Thailand |  | 35 (3.7) | 463 (7.9) | 60 (4.0) | 450 (5.3) | 5 (1.7) | 469 (17.8) | 9.7 (0.16) |
| Canada |  | 35 (3.6) | 531 (3.7) | 61 (3.5) | 526 (3.5) | 4 (1.3) | 515 (11.5) | 9.7 (0.16) |
| Norway (9) |  | 33 (4.2) | 506 (5.5) | 58 (4.4) | 511 (3.3) | 9 (2.4) | 515 (8.6) | 9.6 (0.18) |
| Malaysia |  | 32 (3.6) | 470 (8.7) | 66 (3.8) | 466 (5.4) | 2 (1.0) | ~ ~ | 9.6 (0.10) |
| South Africa (9) |  | 32 (3.4) | 386 (9.9) | 55 (3.2) | 348 (6.8) | 13 (2.7) | 331 (20.9) | 9.5 (0.19) |
| Sweden |  | 32 (4.0) | 521 (6.0) | 63 (4.3) | 522 (4.3) | 5 (1.7) | 537 (12.1) | 9.5 (0.13) |
| Australia |  | 31 (2.5) | 519 (5.3) | 57 (3.2) | 512 (3.7) | 12 (2.4) | 521 (8.0) | 9.4 (0.11) |
| Slovenia |  | 30 (2.0) | 551 (3.4) | 65 (1.8) | 552 (2.6) | 5 (1.1) | 548 (7.0) | 9.4 (0.08) |
| Chile |  | 19 (3.2) | 475 (9.0) | 65 (4.1) | 449 (4.6) | 16 (3.2) | 463 (10.4) | 8.7 (0.15) |
| England | $r$ | 18 (2.5) | 559 (9.5) | 61 (2.4) | 534 (5.2) | 22 (2.1) | 534 (6.4) | 8.5 (0.14) |
| Korea, Rep. of |  | 17 (2.4) | 549 (5.1) | 60 (3.4) | 556 (2.5) | 23 (3.4) | 560 (5.4) | 8.5 (0.13) |
| Botswana (9) |  | 12 (2.4) | 416 (10.5) | 80 (3.3) | 390 (3.0) | 8 (2.3) | 395 (11.0) | 8.9 (0.10) |
| Singapore |  | -- | - - | -- | - - | -- | -- | - - |
| International Avg. |  | 45 (0.5) | 487 (1.0) | 49 (0.5) | 481 (0.9) | 6 (0.3) | 473 (2.7) |  |

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## Exhibit 6.9: Challenges Facing Teachers (Continued)

| Country |  | Few Challenges |  | Some Challenges |  | Many Challenges |  | Average <br> Scale Score |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Percent of Students | Average <br> Achievement | Percent of Students | Average <br> Achievement | Percent of Students | Average <br> Achievement |  |
| Benchmarking Participants |  |  |  |  |  |  |  |  |
| Abu Dhabi, UAE |  | 54 (4.2) | 461 (8.5) | 42 (4.3) | 440 (8.3) | 4 (1.8) | 423 (15.6) | 10.3 (0.16) |
| Dubai, UAE | $r$ | 50 (2.1) | 532 (3.6) | 48 (2.6) | 512 (3.9) | 3 (1.1) | 534 (13.9) | 10.8 (0.09) |
| Florida, US | s | 42 (7.1) | 511 (12.8) | 52 (7.0) | 526 (9.4) | 6 (2.2) | 502 (23.6) | 10.0 (0.33) |
| Norway (8) |  | 34 (3.3) | 481 (4.1) | 56 (3.5) | 494 (3.0) | 10 (2.3) | 506 (6.6) | 9.3 (0.17) |
| Ontario, Canada | $r$ | 34 (4.7) | 526 (4.8) | 63 (4.6) | 527 (3.8) | 4 (1.8) | 522 (19.3) | 9.5 (0.16) |
| Quebec, Canada |  | 32 (4.9) | 536 (6.7) | 62 (5.1) | 528 (6.9) | 5 (2.1) | 504 (15.2) | 9.6 (0.15) |
| Buenos Aires, Argentina |  | x x | x x | x x | x x | x x | x x | x x |




[^0]:    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 dash (-) indicates comparable data not available. A tilde ( $\sim$ ) indicates insufficient data to report achievement.
    $A n$ " $r$ " indicates data are available for at least $70 \%$ but less than $85 \%$ of the students. An " $s$ " indicates data are available for at least $50 \%$ but less than $70 \%$ of the students. An "x" indicates data are available for less than $50 \%$ of students.

