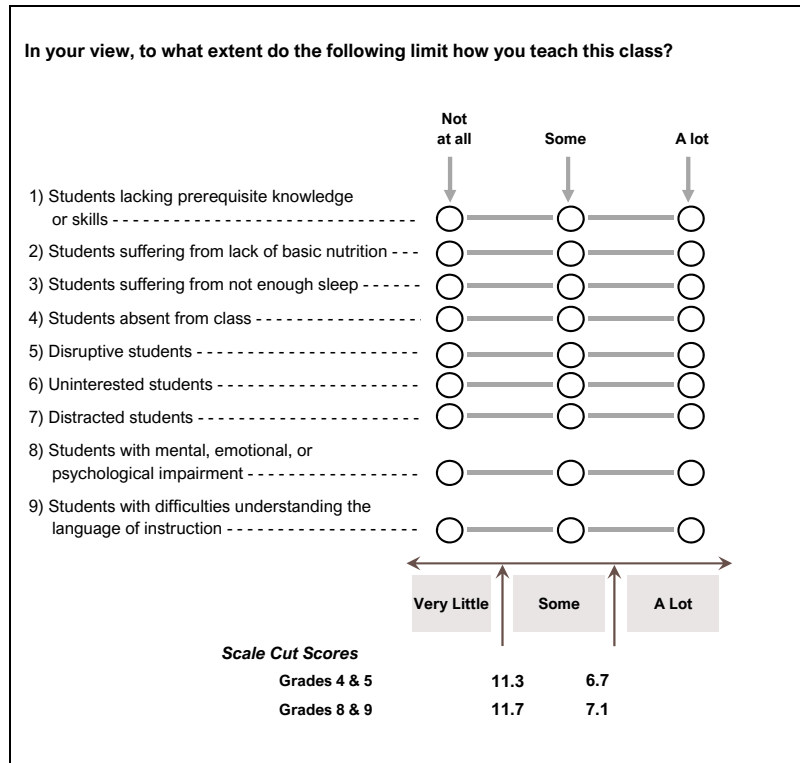


**Exhibit 4.11: Classroom Teaching Limited by Students Not Ready for Instruction**

Teachers' Reports

**About the Scale**

Students were scored according to their teachers' reports regarding nine student attributes on the *Classroom Teaching Limited by Students Not Ready for Instruction* scale. Cut scores divide the scale into three categories. Students with teachers who felt their teaching was limited **Very Little** had a score at or above the cut score corresponding to their teachers reporting they were "not at all" limited by five of the nine student attributes and were limited "some" by the other four, on average. Students with teachers who felt their teaching was limited **A Lot** had a score at or below the cut score corresponding to their teachers reporting they were limited "a lot" by five of the nine attributes and were limited "some" by the other four, on average. All other students had teachers who felt their teaching was limited **Some**.



**Exhibit 4.12a: Classroom Teaching Limited by Students Not Ready for Instruction and Growth in Achievement**
*Teachers' Reports in 2023*

| Country         | Very Little         |                | Some                |                | A Lot               |                |
|-----------------|---------------------|----------------|---------------------|----------------|---------------------|----------------|
|                 | Percent of Students | Average Growth | Percent of Students | Average Growth | Percent of Students | Average Growth |
| Georgia         | 30 (3.4)            | 20 (6.9)       | 65 (3.5)            | 22 (3.4)       | 5 (1.6)             | 15 (11.2)      |
| Italy           | 22 (2.8)            | 33 (5.4)       | 67 (3.4)            | 40 (2.0)       | 11 (2.5)            | 38 (4.0)       |
| Jordan          | 13 (2.9)            | 20 (12.0)      | 71 (3.8)            | 12 (5.1)       | 16 (3.3)            | 4 (10.3)       |
| Korea, Rep. of  | 23 (3.9)            | 40 (2.2)       | 69 (3.9)            | 41 (2.0)       | 8 (2.2)             | 31 (5.6)       |
| Kosovo          | 37 (3.8)            | 15 (3.2)       | 62 (3.8)            | 18 (2.2)       | 0 ~                 | ~ ~            |
| Montenegro      | 38 (2.9)            | 19 (2.9)       | 58 (2.9)            | 18 (2.4)       | 4 (1.0)             | 23 (9.4)       |
| North Macedonia | 37 (3.7)            | 25 (3.2)       | 58 (3.6)            | 13 (4.6)       | 5 (1.9)             | 0 (14.8)       |
| Slovenia        | 17 (2.6)            | 49 (2.8)       | 76 (2.9)            | 41 (1.8)       | 7 (1.7)             | 45 (6.3)       |
| Sweden          | 28 (4.1)            | 31 (3.7)       | 68 (3.9)            | 29 (2.0)       | 4 (1.6)             | 32 (7.3)       |

This TIMSS context questionnaire scale was established in 2015 based on the combined response distribution of 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 result.

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 2023 Longitudinal  
 Downloaded from: <https://timss2023.org/longitudinal/results>

**Exhibit 4.12b: Classroom Teaching Limited by Students Not Ready for Instruction and Average Achievement**
*Teachers' Reports in 2023 and 2024*

| Country                | Very Little         |                     | Some                |                     | A Lot               |                     | Average Scale Score |
|------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
|                        | Percent of Students | Average Achievement | Percent of Students | Average Achievement | Percent of Students | Average Achievement |                     |
| <b>Georgia</b>         |                     |                     |                     |                     |                     |                     |                     |
| Grade 4                | 30 (3.4)            | 507 (4.9)           | 65 (3.5)            | 492 (4.6)           | 5 (1.6)             | 512 (6.3)           | 9.9 (0.14)          |
| Grade 5                | 17 (3.0)            | 528 (8.0)           | 75 (3.5)            | 514 (4.1)           | 8 (1.8)             | 520 (7.2)           | 9.4 (0.14)          |
| <b>Italy</b>           |                     |                     |                     |                     |                     |                     |                     |
| Grade 4                | 22 (2.8)            | 511 (5.0)           | 67 (3.4)            | 514 (2.9)           | 11 (2.5)            | 500 (12.8)          | 9.5 (0.18)          |
| Grade 5                | 23 (2.9)            | 556 (7.9)           | 70 (3.2)            | 549 (3.1)           | 7 (1.6)             | 552 (7.5)           | 9.9 (0.12)          |
| <b>Jordan</b>          |                     |                     |                     |                     |                     |                     |                     |
| Grade 4                | 13 (2.9)            | 465 (12.8)          | 71 (3.8)            | 421 (6.5)           | 16 (3.3)            | 428 (15.9)          | 9.0 (0.19)          |
| Grade 5                | 14 (2.8)            | 427 (12.6)          | 74 (3.6)            | 440 (5.9)           | 12 (2.9)            | 418 (13.1)          | 9.2 (0.19)          |
| <b>Korea, Rep. of</b>  |                     |                     |                     |                     |                     |                     |                     |
| Grade 4                | 23 (3.9)            | 609 (5.3)           | 69 (3.9)            | 592 (3.3)           | 8 (2.2)             | 597 (9.9)           | 9.6 (0.19)          |
| Grade 5                | 24 (2.2)            | 644 (3.5)           | 63 (2.8)            | 633 (2.7)           | 12 (2.7)            | 618 (11.9)          | 9.6 (0.15)          |
| <b>Kosovo</b>          |                     |                     |                     |                     |                     |                     |                     |
| Grade 4                | 37 (3.8)            | 455 (5.4)           | 62 (3.8)            | 452 (4.9)           | 0 ~                 | ~ ~                 | 10.8 (0.11)         |
| Grade 5                | 36 (5.5)            | 478 (8.8)           | 64 (5.5)            | 466 (7.3)           | 0 ~                 | ~ ~                 | 10.8 (0.19)         |
| <b>Montenegro</b>      |                     |                     |                     |                     |                     |                     |                     |
| Grade 4                | 38 (2.9)            | 479 (3.4)           | 58 (2.9)            | 473 (2.8)           | 4 (1.0)             | 471 (8.6)           | 10.7 (0.12)         |
| Grade 5                | 33 (2.1)            | 499 (2.8)           | 63 (2.4)            | 491 (2.5)           | 3 (1.2)             | 502 (7.2)           | 10.5 (0.12)         |
| <b>North Macedonia</b> |                     |                     |                     |                     |                     |                     |                     |
| Grade 4                | 37 (3.7)            | 493 (5.8)           | 58 (3.6)            | 465 (6.0)           | 5 (1.9)             | 473 (15.3)          | 10.6 (0.16)         |
| Grade 5                | 45 (3.5)            | 500 (6.0)           | 53 (3.4)            | 482 (5.0)           | 2 ~                 | ~ ~                 | 11.2 (0.16)         |
| <b>Slovenia</b>        |                     |                     |                     |                     |                     |                     |                     |
| Grade 4                | 17 (2.6)            | 514 (3.2)           | 76 (2.9)            | 513 (2.2)           | 7 (1.7)             | 508 (5.9)           | 9.5 (0.14)          |
| Grade 5                | 19 (3.0)            | 561 (4.8)           | 73 (3.2)            | 557 (2.2)           | 8 (2.1)             | 555 (4.8)           | 9.5 (0.15)          |
| <b>Sweden</b>          |                     |                     |                     |                     |                     |                     |                     |
| Grade 4                | 28 (4.1)            | 544 (4.5)           | 68 (3.9)            | 527 (3.5)           | 4 (1.6)             | 506 (9.6)           | 10.1 (0.17)         |
| Grade 5                | 29 (4.4)            | 578 (4.9)           | 66 (4.8)            | 558 (3.1)           | 5 (2.3)             | 515 (30.6)          | 10.0 (0.16)         |

This TIMSS context questionnaire scale was established in 2015 based on the combined response distribution of 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 result.

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

An "x" indicates data are available for at least 40% but less than 50% of the students—interpret with caution.

**Exhibit 4.13a: Classroom Teaching Limited by Students Not Ready for Instruction and Growth in Achievement**
*Teachers' Reports in 2023*

| Country         | Very Little         |                | Some                |                | A Lot               |                |
|-----------------|---------------------|----------------|---------------------|----------------|---------------------|----------------|
|                 | Percent of Students | Average Growth | Percent of Students | Average Growth | Percent of Students | Average Growth |
| Georgia         | 30 (3.6)            | 24 (4.9)       | 65 (3.6)            | 19 (3.4)       | 5 (1.6)             | 24 (11.9)      |
| Italy           | 22 (2.8)            | 30 (3.7)       | 67 (3.4)            | 33 (2.2)       | 11 (2.5)            | 31 (5.0)       |
| Jordan          | 17 (2.8)            | 19 (10.3)      | 69 (4.1)            | 24 (4.6)       | 13 (3.2)            | 19 (9.7)       |
| Korea, Rep. of  | 25 (3.9)            | 31 (3.5)       | 68 (3.9)            | 35 (2.0)       | 7 (2.0)             | 36 (4.5)       |
| Kosovo          | 37 (3.8)            | 15 (4.0)       | 62 (3.8)            | 19 (2.3)       | 0 ~                 | ~ ~            |
| Montenegro      | 38 (2.9)            | 21 (2.4)       | 58 (2.9)            | 17 (2.4)       | 4 (1.0)             | 14 (7.3)       |
| North Macedonia | r 37 (3.7)          | 19 (3.7)       | 58 (3.6)            | 8 (3.9)        | 5 (1.9)             | -18 (17.8)     |
| Slovenia        | 17 (2.6)            | 38 (3.5)       | 76 (2.9)            | 37 (1.7)       | 7 (1.7)             | 45 (5.1)       |
| Sweden          | r 30 (4.1)          | 28 (3.0)       | 68 (4.1)            | 27 (2.0)       | 2 ~                 | ~ ~            |

This TIMSS context questionnaire scale was established in 2015 based on the combined response distribution of 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 result.

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 2023 Longitudinal  
 Downloaded from: <https://timss2023.org/longitudinal/results>

**Exhibit 4.13b: Classroom Teaching Limited by Students Not Ready for Instruction and Average Achievement**
*Teachers' Reports in 2023 and 2024*

| Country                | Very Little         |                     | Some                |                     | A Lot               |                     | Average Scale Score |
|------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
|                        | Percent of Students | Average Achievement | Percent of Students | Average Achievement | Percent of Students | Average Achievement |                     |
| <b>Georgia</b>         |                     |                     |                     |                     |                     |                     |                     |
| Grade 4                | 30 (3.6)            | 469 (4.0)           | 65 (3.6)            | 463 (4.1)           | 5 (1.6)             | 479 (9.3)           | 9.8 (0.17)          |
| Grade 5                | 20 (2.9)            | 497 (7.6)           | 72 (3.6)            | 483 (4.2)           | 8 (2.2)             | 478 (8.0)           | 9.6 (0.13)          |
| <b>Italy</b>           |                     |                     |                     |                     |                     |                     |                     |
| Grade 4                | 22 (2.8)            | 509 (4.7)           | 67 (3.4)            | 511 (2.8)           | 11 (2.5)            | 503 (12.4)          | 9.5 (0.18)          |
| Grade 5                | 23 (2.9)            | 542 (7.8)           | 70 (3.2)            | 541 (3.1)           | 7 (1.6)             | 543 (6.3)           | 9.9 (0.12)          |
| <b>Jordan</b>          |                     |                     |                     |                     |                     |                     |                     |
| Grade 4                | 17 (2.8)            | 450 (12.7)          | 69 (4.1)            | 405 (5.1)           | 13 (3.2)            | 440 (23.0)          | 9.2 (0.17)          |
| Grade 5                | 14 (2.8)            | 464 (13.5)          | 74 (3.8)            | 436 (5.8)           | 12 (3.2)            | 392 (14.6)          | 9.1 (0.19)          |
| <b>Korea, Rep. of</b>  |                     |                     |                     |                     |                     |                     |                     |
| Grade 4                | 25 (3.9)            | 595 (4.3)           | 68 (3.9)            | 580 (3.7)           | 7 (2.0)             | 576 (7.6)           | 9.7 (0.18)          |
| Grade 5                | 27 (3.5)            | 620 (3.1)           | 63 (3.4)            | 613 (3.7)           | 10 (2.0)            | 610 (5.2)           | 9.8 (0.19)          |
| <b>Kosovo</b>          |                     |                     |                     |                     |                     |                     |                     |
| Grade 4                | 37 (3.8)            | 411 (5.2)           | 62 (3.8)            | 405 (4.8)           | 0 ~                 | ~ ~                 | 10.8 (0.11)         |
| Grade 5                | 36 (5.5)            | 427 (7.0)           | 64 (5.5)            | 428 (7.4)           | 0 ~                 | ~ ~                 | 10.8 (0.19)         |
| <b>Montenegro</b>      |                     |                     |                     |                     |                     |                     |                     |
| Grade 4                | 38 (2.9)            | 462 (3.5)           | 58 (2.9)            | 460 (3.1)           | 4 (1.0)             | 458 (6.5)           | 10.7 (0.12)         |
| Grade 5                | 34 (1.9)            | 482 (2.8)           | 63 (2.2)            | 478 (2.7)           | 3 (1.2)             | 474 (11.7)          | 10.4 (0.12)         |
| <b>North Macedonia</b> |                     |                     |                     |                     |                     |                     |                     |
| Grade 4                | 37 (3.7)            | 461 (6.5)           | 58 (3.6)            | 428 (6.4)           | 5 (1.9)             | 447 (18.2)          | 10.6 (0.16)         |
| Grade 5                | 43 (3.9)            | 457 (7.3)           | 56 (4.0)            | 445 (5.2)           | 2 ~                 | ~ ~                 | 11.0 (0.16)         |
| <b>Slovenia</b>        |                     |                     |                     |                     |                     |                     |                     |
| Grade 4                | 17 (2.6)            | 529 (4.8)           | 76 (2.9)            | 525 (2.3)           | 7 (1.7)             | 517 (7.4)           | 9.5 (0.14)          |
| Grade 5                | 19 (3.0)            | 571 (4.3)           | 73 (3.2)            | 564 (2.0)           | 8 (2.1)             | 562 (4.8)           | 9.5 (0.15)          |
| <b>Sweden</b>          |                     |                     |                     |                     |                     |                     |                     |
| Grade 4                | 30 (4.1)            | 540 (5.7)           | 68 (4.1)            | 531 (4.6)           | 2 ~                 | ~ ~                 | 10.1 (0.15)         |
| Grade 5                | 18 (3.1)            | 587 (6.2)           | 78 (3.7)            | 561 (3.5)           | 4 (2.3)             | 483 (30.5)          | 9.8 (0.14)          |

This TIMSS context questionnaire scale was established in 2015 based on the combined response distribution of 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 result.

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

An "x" indicates data are available for at least 40% but less than 50% of the students—interpret with caution.

**Exhibit 4.14a: Classroom Teaching Limited by Students Not Ready for Instruction and Growth in Achievement***Teachers' Reports in 2023*

| Country        | Very Little         |                | Some                |                | A Lot               |                |
|----------------|---------------------|----------------|---------------------|----------------|---------------------|----------------|
|                | Percent of Students | Average Growth | Percent of Students | Average Growth | Percent of Students | Average Growth |
| Jordan         | 7 (2.0)             | 15 (14.4)      | 83 (3.0)            | 19 (3.4)       | 10 (2.3)            | 12 (8.6)       |
| Korea, Rep. of | 15 (2.6)            | 9 (5.4)        | 73 (3.6)            | 9 (1.8)        | 12 (2.7)            | 4 (4.1)        |
| Sweden         | 12 (2.1)            | 16 (3.9)       | 86 (2.3)            | 11 (1.5)       | 2 ~                 | ~ ~            |

This TIMSS context questionnaire scale was established in 2015 based on the combined response distribution of 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 result.

**Exhibit 4.14b: Classroom Teaching Limited by Students Not Ready for Instruction and Average Achievement**
*Teachers' Reports in 2023 and 2024*

| Country               | Very Little         |                     | Some                |                     | A Lot               |                     | Average Scale Score |
|-----------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
|                       | Percent of Students | Average Achievement | Percent of Students | Average Achievement | Percent of Students | Average Achievement |                     |
| <b>Jordan</b>         |                     |                     |                     |                     |                     |                     |                     |
| Grade 8               | 7 (2.0)             | 375 (12.2)          | 83 (3.0)            | 388 (3.3)           | 10 (2.3)            | 403 (13.1)          | 9.1 (0.12)          |
| Grade 9               | 11 (2.5)            | 446 (13.8)          | 71 (3.6)            | 399 (4.1)           | 18 (3.2)            | 395 (10.5)          | 9.0 (0.18)          |
| <b>Korea, Rep. of</b> |                     |                     |                     |                     |                     |                     |                     |
| Grade 8               | 15 (2.6)            | 594 (7.7)           | 73 (3.6)            | 596 (3.5)           | 12 (2.7)            | 596 (8.8)           | 9.5 (0.15)          |
| Grade 9               | 17 (2.7)            | 605 (6.5)           | 73 (3.4)            | 605 (3.2)           | 10 (2.4)            | 589 (9.1)           | 9.5 (0.15)          |
| <b>Sweden</b>         |                     |                     |                     |                     |                     |                     |                     |
| Grade 8               | 12 (2.1)            | 549 (10.7)          | 86 (2.3)            | 511 (2.4)           | 2 ~                 | ~ ~                 | 9.9 (0.10)          |
| Grade 9               | r 22 (3.2)          | 547 (8.2)           | 77 (3.3)            | 522 (3.3)           | 2 ~                 | ~ ~                 | 10.3 (0.13)         |

This TIMSS context questionnaire scale was established in 2015 based on the combined response distribution of 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 result.

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 2023 Longitudinal  
 Downloaded from: <https://timss2023.org/longitudinal/results>

**Exhibit 4.15a: Classroom Teaching Limited by Students Not Ready for Instruction and Growth in Achievement**
*Teachers' Reports in 2023*

| Country        | Very Little         |                | Some                |                | A Lot               |                |
|----------------|---------------------|----------------|---------------------|----------------|---------------------|----------------|
|                | Percent of Students | Average Growth | Percent of Students | Average Growth | Percent of Students | Average Growth |
| Jordan         | 11 (2.5)            | 9 (5.4)        | 80 (3.0)            | 10 (3.6)       | 9 (1.9)             | 10 (8.1)       |
| Korea, Rep. of | 21 (2.8)            | 6 (4.0)        | 69 (3.1)            | 7 (1.8)        | 10 (2.2)            | 14 (5.1)       |
| Sweden         | 18 (2.8)            | 8 (3.1)        | 80 (3.0)            | 7 (1.9)        | 2 ~                 | ~ ~            |

This TIMSS context questionnaire scale was established in 2015 based on the combined response distribution of 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 result.

SOURCE: IEA's Trends in International Mathematics and Science Study - TIMSS 2023 Longitudinal  
 Downloaded from: <https://timss2023.org/longitudinal/results>

Exhibit 4.15b: Classroom Teaching Limited by Students Not Ready for Instruction and Average Achievement  
Teachers' Reports in 2023 and 2024

| Country        | Very Little            |                        | Some                   |                        | A Lot                  |                        | Average<br>Scale Score |
|----------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
|                | Percent<br>of Students | Average<br>Achievement | Percent<br>of Students | Average<br>Achievement | Percent<br>of Students | Average<br>Achievement |                        |
| Jordan         |                        |                        |                        |                        |                        |                        |                        |
| Grade 8        | 11 (2.5)               | 415 (11.7)             | 80 (3.0)               | 414 (3.7)              | 9 (1.9)                | 407 (11.9)             | 9.4 (0.17)             |
| Grade 9        | 10 (1.4)               | 434 (6.9)              | 78 (1.8)               | 421 (3.4)              | 12 (1.6)               | 410 (8.4)              | 9.2 (0.11)             |
| Korea, Rep. of |                        |                        |                        |                        |                        |                        |                        |
| Grade 8        | 21 (2.8)               | 546 (5.5)              | 69 (3.1)               | 548 (2.6)              | 10 (2.2)               | 533 (7.2)              | 9.9 (0.17)             |
| Grade 9        | 19 (2.5)               | 566 (4.5)              | 73 (3.1)               | 552 (2.8)              | 8 (1.8)                | 554 (8.7)              | 9.9 (0.12)             |
| Sweden         |                        |                        |                        |                        |                        |                        |                        |
| Grade 8        | 18 (2.8)               | 545 (8.5)              | 80 (3.0)               | 515 (3.4)              | 2 ~                    | ~ ~                    | 10.1 (0.10)            |
| Grade 9        | 22 (3.1)               | 546 (6.3)              | 76 (3.2)               | 521 (4.0)              | 2 ~                    | ~ ~                    | 10.4 (0.12)            |

This TIMSS context questionnaire scale was established in 2015 based on the combined response distribution of 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 result.

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