## Exhibit M8.2: Advanced Mathematics Teachers' Formal Education*

Reported by Advanced Mathematics Teachers

| Country | Completed <br> Postgraduate University Degree** |  | Completed Bachelor's <br> Degree or Equivalent but Not a <br> Postgraduate Degree |  | Did Not Complete Bachelor's Degree |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Percent of Students | Average Achievement | Percent of Students | Average Achievement | Percent of Students | Average Achievement |
| France | 75 (2.9) | 462 (3.3) | 25 (2.9) | 460 (4.7) | 0 (0.0) | ~ ~ |
| Italy | 11 (2.0) | 388 (18.2) | 87 (2.2) | 428 (6.4) | 2 (0.9) | ~ ~ |
| Lebanon | 59 (4.1) | 529 (3.6) | 34 (4.2) | 542 (7.3) | 7 (1.5) | 524 (12.6) |
| Norway | 77 (3.2) | 464 (4.7) | 22 (3.2) | 452 (9.4) | 0 (0.0) | ~ ~ |
| Portugal | 20 (2.8) | 483 (5.4) | 78 (2.9) | 482 (2.9) | 2 (0.8) | $\sim$ |
| Russian Federation | 71 (3.3) | 483 (8.0) | 29 (3.3) | 485 (12.0) | 0 (0.0) | $\sim$ |
| Russian Federation 6hr+ | 81 (2.7) | 547 (9.2) | 19 (2.7) | 513 (13.4) | 0 (0.0) | $\sim \sim$ |
| Slovenia | 99 (0.8) | 460 (3.5) | 1 (0.8) | ~ ~ | 0 (0.0) | ~ ~ |
| Sweden | 67 (3.5) | 436 (4.8) | 32 (3.4) | 437 (7.2) | 2 (0.6) | $\sim \sim$ |
| United States r | 73 (4.3) | 493 (5.4) | 27 (4.3) | 464 (13.2) | 0 (0.0) | ~ ~ |
| International Avg. | 61 (1.1) | 466 (2.6) | 37 (1.1) | 469 (3.0) | 1 (0.2) | 524 (12.6) |

* Based on countries' categorizations according to UNESCO's International Standard Classification of Education (Operational Manual for ISCED-2011).
** For example, doctorate, master's, or other postgraduate degree.
The Russian Federation 6hr+ results are for a subset of the Russian Federation students. This subset of students are in an Intensive stream that have at least 6 hours of mathematics lessons per week.
() Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.

A tilde (~) indicates insufficient data to report achievement.
$A n$ " $r$ " indicates data are available for at least $70 \%$ but less than $85 \%$ of the students.

