

**Appendix MD.1: Average Percent Correct in the Advanced Mathematics Content and Cognitive Domains**

| Country                 | Overall Advanced Mathematics | Advanced Mathematics Content Domains |          |          | Advanced Mathematics Cognitive Domains |          |           |
|-------------------------|------------------------------|--------------------------------------|----------|----------|--|----------|-----------|
|                         |                              | Algebra                              | Calculus | Geometry | Knowing                                | Applying | Reasoning |
| France                  | 36 (0.5)                     | 41 (0.6)                             | 34 (0.6) | 32 (0.5) | 49 (0.6)                               | 31 (0.5) | 30 (0.6)  |
| Italy                   | 31 (0.7)                     | 33 (0.8)                             | 32 (0.8) | 29 (0.7) | 42 (0.9)                               | 29 (0.7) | 25 (0.7)  |
| Lebanon                 | 50 (0.7)                     | 52 (0.8)                             | 51 (0.7) | 47 (0.9) | 64 (0.7)                               | 45 (0.8) | 44 (0.9)  |
| Norway                  | 37 (0.9)                     | 37 (0.9)                             | 35 (0.9) | 38 (0.9) | 46 (0.9)                               | 33 (0.9) | 33 (0.9)  |
| Portugal                | 40 (0.5)                     | 47 (0.6)                             | 35 (0.5) | 37 (0.5) | 49 (0.5)                               | 35 (0.5) | 36 (0.7)  |
| Russian Federation      | 43 (1.1)                     | 48 (1.2)                             | 36 (1.0) | 45 (1.1) | 52 (1.1)                               | 41 (1.2) | 37 (1.0)  |
| Russian Federation 6hr+ | 54 (1.7)                     | 61 (1.7)                             | 46 (1.6) | 57 (1.9) | 63 (1.5)                               | 52 (1.7) | 50 (1.8)  |
| Slovenia                | 37 (0.6)                     | 43 (0.8)                             | 30 (0.7) | 37 (0.6) | 49 (0.8)                               | 34 (0.6) | 28 (0.7)  |
| Sweden                  | 33 (0.6)                     | 34 (0.7)                             | 33 (0.6) | 31 (0.6) | 40 (0.7)                               | 30 (0.6) | 29 (0.6)  |
| United States           | 43 (1.0)                     | 45 (1.0)                             | 46 (1.2) | 37 (0.9) | 54 (1.1)                               | 39 (0.9) | 38 (1.0)  |
| International Avg.      | 39 (0.3)                     | 42 (0.3)                             | 37 (0.3) | 37 (0.3) | 49 (0.3)                               | 35 (0.3) | 33 (0.3)  |

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

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