

## Appendix 11B: Trend Scoring Reliability for the Constructed Response Items

### TIMSS Advanced 2015 Trend Scoring Reliability for the Advanced Mathematics Constructed Response Items

Country	Correctness Score Agreement			Diagnostic Score Agreement		
	Average of Exact Percent Agreement Across Items	Range of Exact Percent Agreement		Average of Exact Percent Agreement Across Items	Range of Exact Percent Agreement	
		Minimum	Maximum		Minimum	Maximum
Italy	93	73	100	92	73	99
Norway	96	91	99	94	85	99
Russian Federation 6hr+ <sup>1</sup>	92	72	100	91	72	100
Slovenia	92	77	99	90	76	98
Sweden	94	87	100	90	82	97
<b>International Avg.</b>	<b>93</b>	<b>80</b>	<b>100</b>	<b>91</b>	<b>78</b>	<b>98</b>

1 For advanced mathematics, the Russian Federation participated in 2015 with an expanded population that included the more specialized students assessed in 1995 and 2008.

### TIMSS Advanced 2015 Trend Scoring Reliability for the Physics Constructed Response Items

Country	Correctness Score Agreement			Diagnostic Score Agreement		
	Average of Exact Percent Agreement Across Items	Range of Exact Percent Agreement		Average of Exact Percent Agreement Across Items	Range of Exact Percent Agreement	
		Minimum	Maximum		Minimum	Maximum
Italy	93	88	97	89	79	92
Norway	91	74	99	87	73	96
Russian Federation	92	83	99	88	72	96
Slovenia	90	81	98	82	69	92
Sweden	93	76	98	87	75	93
<b>International Avg.</b>	<b>92</b>	<b>80</b>	<b>98</b>	<b>87</b>	<b>73</b>	<b>94</b>