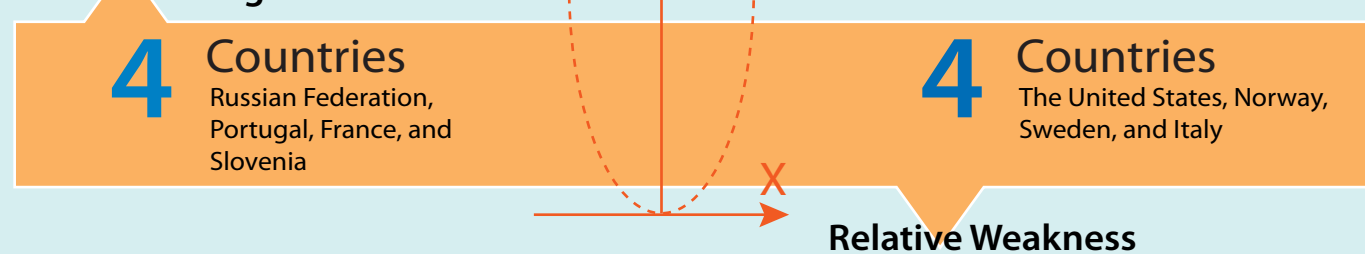


### Achievement by Content Domains

Within mathematics, TIMSS Advanced provided results for three content domains—Algebra, Calculus, and Geometry. Each country demonstrated strengths in one or two content domains compared to mathematics achievement overall, and weaknesses in one or two content domains.

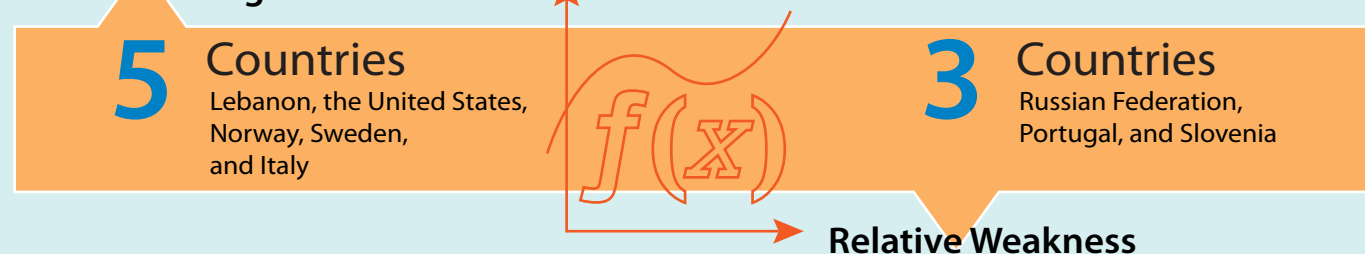
#### Algebra

Relative Strength



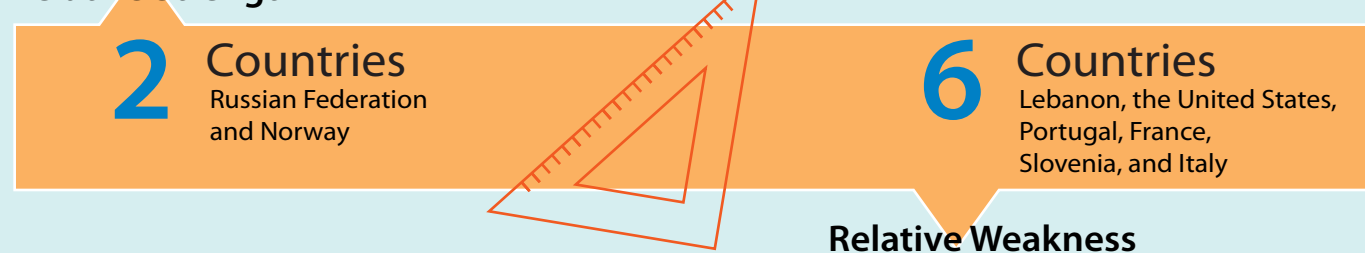
#### Calculus

Relative Strength



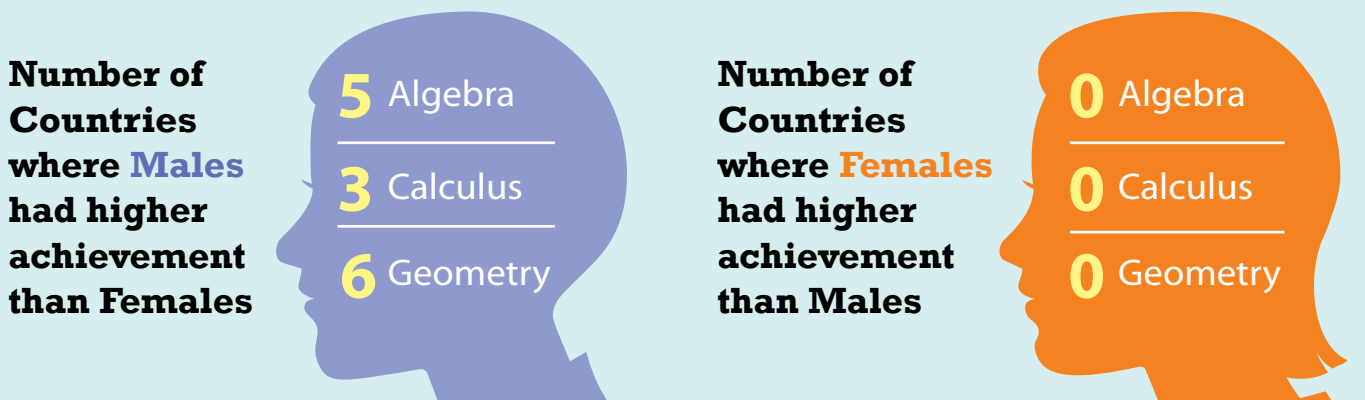
#### Geometry

Relative Strength



#### Differences reflected in Achievement by Gender

Achievement differences in content domains by gender reflect males' higher achievement in 6 countries in mathematics overall.

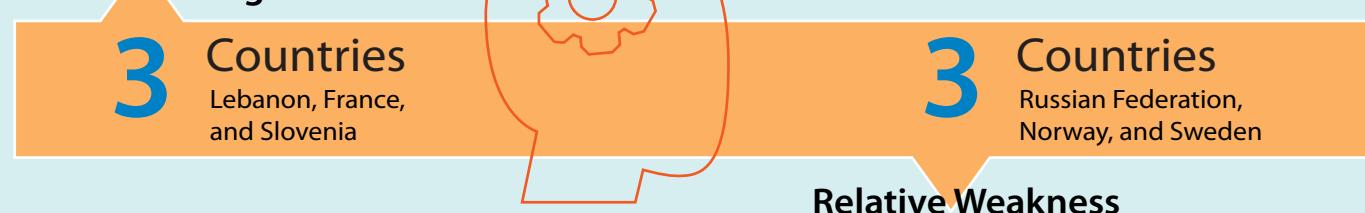


### Achievement by Cognitive Domains

TIMSS Advanced provided results for three cognitive domains—Knowing, Applying, and Reasoning. Although there was some balance in achievement across cognitive domains, most countries had at least one strength and one weakness compared to mathematics achievement overall.

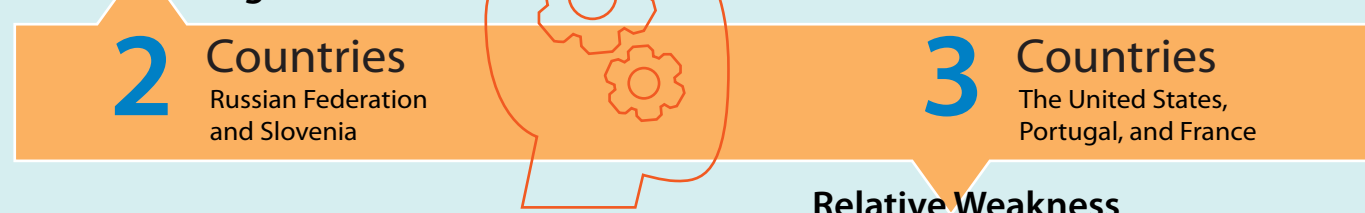
#### Knowing

Relative Strength



#### Applying

Relative Strength



#### Reasoning

Relative Strength



#### Differences reflected in Achievement by Gender

Besides reflecting males' higher achievement in 6 countries in mathematics overall, achievement differences in the cognitive domains by gender show a male advantage, especially in Reasoning.

