

## Achievement by Content Domains

Within mathematics, TIMSS at the fourth grade provided results for three content domains—Number, Geometric Shapes and Measures, and Data Display. Most countries demonstrated strengths in one or two content domains compared to mathematics achievement overall, and weaknesses in one or two content domains.

TIMSS 2015: 49 Countries

### Number

Relative Strength



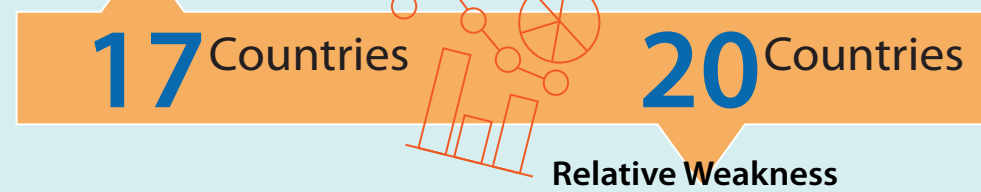
### Geometric Shapes and Measures

Relative Strength



### Data Display

Relative Strength



### Trends 2011–2015: 41 Countries

Countries Improved | Countries Declined

Number

20

5

Geometric Shapes and Measures

20

3

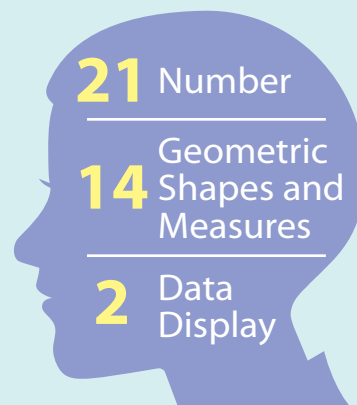
Data Display

18

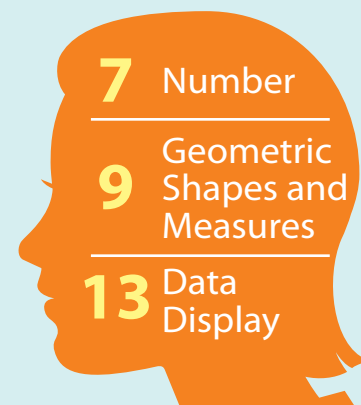
6

### Differences in Achievement by Gender in the Content Domains

Number of Countries Where **Boys** Outperformed Girls in the Content Domains



Number of Countries Where **Girls** Outperformed Boys in the Content Domains



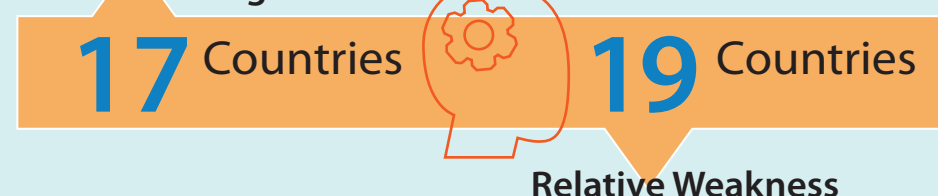
## Achievement by Cognitive Domains

TIMSS at the fourth grade 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.

TIMSS 2015: 49 Countries

### Knowing

Relative Strength



### Applying

Relative Strength



### Reasoning

Relative Strength



### Trends 2011–2015: 41 Countries

Countries Improved | Countries Declined

Knowing

21

7

Applying

22

4

Reasoning

20

2

### Differences in Achievement by Gender in the Cognitive Domains

Number of Countries Where **Boys** Outperformed Girls in the Cognitive Domains



Number of Countries Where **Girls** Outperformed Boys in the Cognitive Domains

