

2017-18 Information Brief #1:

At what grade levels do states test key mathematics topics?

→ State education agencies reported that they assess key math topics at the following grade levels (see Table 1).

Table 1. Number of States that Assess Key Mathematics Topics, by Grade Level

Grade	Fractions on a Number Line	Multiplication and Division in Word Problems	Multiplication by Fractions	Volume Multiplication	Division by Fractions	Proportional Relationships and Quantiles
3rd	40	40	0	0	0	0
4th	1	2	19	1	1	0
5th	0	1	21	37	7	1
6th	0	0	3	1	35	12
7th	0	0	0	0	0	27
8th	0	0	0	0	0	1

**Note that 43 states responded to this question, and three states provided partial information, so that we have information for each topic from 39-41 states.*

- Four of the six mathematics topics were assessed by most states at the same grade level.
 - Almost all states assessed **Fractions on a Number line** and **Multiplication and Division in Word Problems** in grade 3.
 - Almost all states assessed **Volume Multiplication** in grade 5.
 - Most states assessed **Division by Fractions** in grade 6.

- For the other two topics, the grade level varied across the states.
 - About half of the states reported assessing **Multiplication by Fractions** in grade 4 and the other half in grade 5, with a few states assessing this topic in grade 6.
 - For **Proportional Relationships and Quantiles**, most states assessed this topic in grade 7, with some assessing in grade 6, and one state in grades 5 and 8.

- Figures 1 through 6 below illustrate the variation in grade levels for each of the six key mathematics topics.

Figure 1

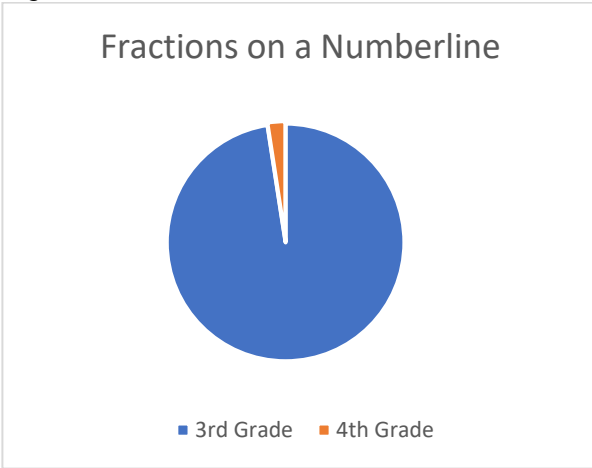


Figure 2

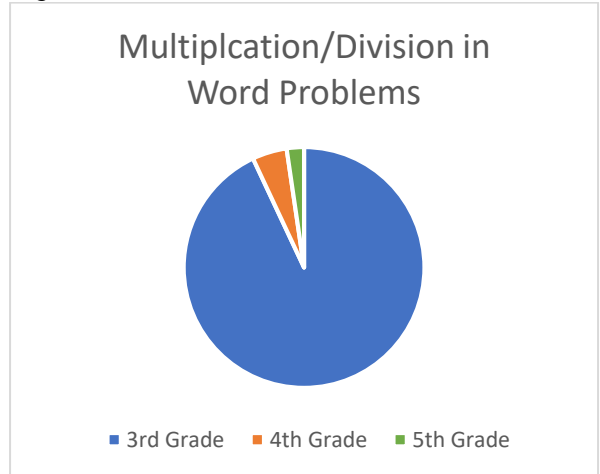


Figure 3

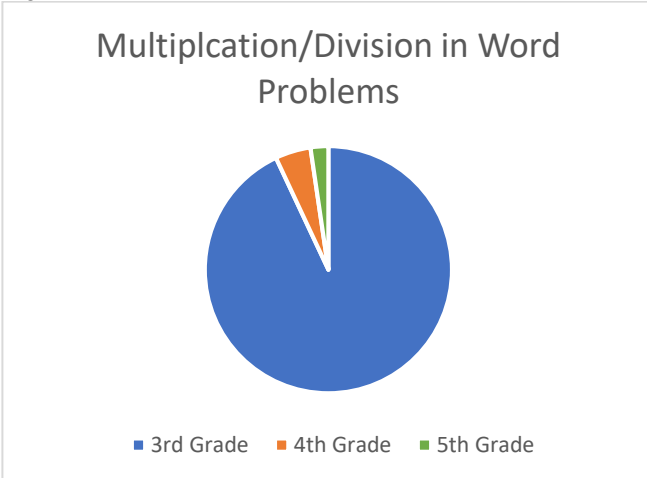


Figure 4

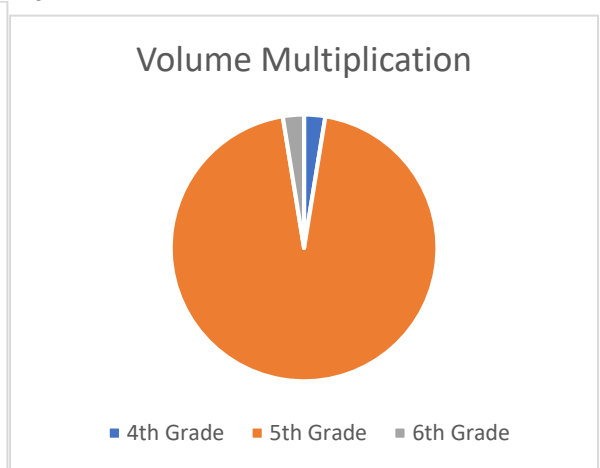


Figure 5

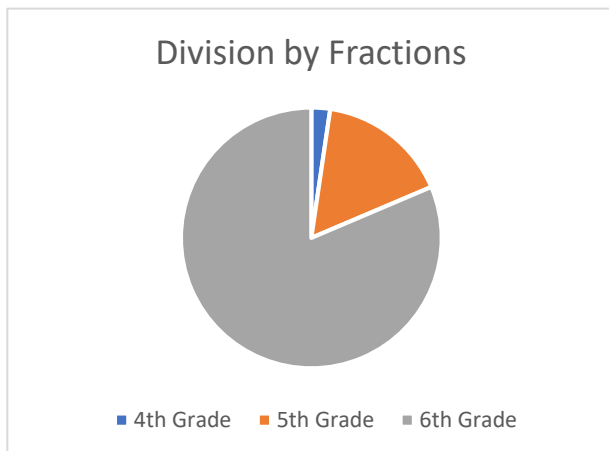


Figure 6

