

## KEY CONCEPT OVERVIEW

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Lessons 16 through 18 focus on strategies to help students solve division problems of multi-digit numbers.

You can expect to see homework that asks your child to do the following:

- Rewrite division problems as easier problems, and then solve. For example,

$$\begin{aligned}12,000 \div 300 \\ &= 12,000 \div 100 \div 3 \\ &= 120 \div 3 \\ &= 40\end{aligned}$$

- Estimate the **quotient**. For example,

$$\begin{aligned}609 \div 24 \\ \\ \approx 600 \div 20 \\ = 30\end{aligned}$$

- Solve word problems that involve division of multi-digit numbers.

## SAMPLE PROBLEM (From Lesson 18)

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Estimate the quotient.

$$5,492 \div 72$$

$$\begin{aligned}\approx & \mathbf{5,600 \div 70} \\ = & \mathbf{560 \div 7} \\ = & \mathbf{80}\end{aligned}$$

Additional sample problems with detailed answer steps are found in the *Eureka Math Homework Helpers* books. Learn more at [GreatMinds.org](http://GreatMinds.org).

**HOW YOU CAN HELP AT HOME** 

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- Play a skip-counting contest with your child. For example, count by 3's to 30: 3, 6, 9, 12, 15, .... Count by 30's to 300: 30, 60, 90, 120, 150, .... Count by 300's to 3,000: 300, 600, 900, 1200, 1500, ....
- Play the Rounding card game with your child.
  1. Take the jacks, queens, kings, tens, and jokers out of the deck.
  2. Put the stack of remaining cards facedown.
  3. Flip a set number of cards and have your child practice rounding the number represented by the flipped cards to different place value units.

For example, you flip a 6, a 1, an 8, and a 2; they represent 6,182. Rounding 6,182 to the nearest ten is 6,180; rounding 6,182 to the nearest hundred is 6,200; and rounding 6,182 to the nearest thousand is 6,000.

**TERMS** 

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**Quotient:** The answer resulting from the division of two numbers. For example, in  $5.4 \div 6 = 0.9$ , the number 0.9 is the quotient.