

## KEY CONCEPT OVERVIEW

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Lessons 26 through 33 focus on dividing three- and four-digit numbers by one-digit numbers, using different methods.

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

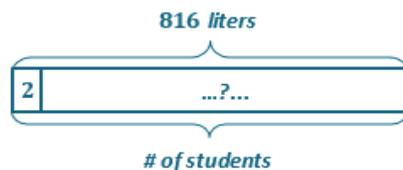
- Divide by using place value disks, **long division**, and the **area model**.
- Check division work by using multiplication.
- Draw **tape diagrams** (see Sample Problem below) and solve division word problems, identifying whether the size of the groups or number of groups is unknown.
- Solve division word problems with **remainders**.

## SAMPLE PROBLEM (From Lesson 31)

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Solve the following problem. Draw a tape diagram to help you solve. Identify whether the group size or the number of groups is unknown.

A group of students equally shared 816 liters of water. If each student received 2 liters of water, how many students received water?



*Number of groups unknown*

$$\begin{array}{r}
 408 \\
 2 \overline{) 816} \\
 \underline{- 8} \phantom{00} \\
 01 \phantom{0} \\
 \underline{- 0} \phantom{0} \\
 16 \\
 \underline{- 16} \\
 0
 \end{array}$$

*408 students received water.*

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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- Discuss with your child times when you might use division in everyday life. For example, you have \$20 to spend on bagels. If each bagel costs \$3, how many bagels can you buy? (6) Or, you have 37 orange slices to give to 8 soccer teammates. You want to give each of them 5 orange slices. Do you have enough? (No. You would need 40.)
- Take turns flipping a coin and creating word problems. If the coin lands on heads, create a word problem in which the size of the group is unknown (e.g., Sarah divided her 124 stickers equally among 4 of her friends. How many stickers will each of them get? (31)). If the coin lands on tails,

**HOW YOU CAN HELP AT HOME**  
(CONTINUED)

create a word problem in which the number of groups is unknown (e.g., Sarah gave away a total of 124 stickers. If she gave each of her friends 31 stickers, how many friends received stickers? (4)). Challenge each other to solve the problems.

- Ask your child to draw and label a place value chart. Create a four-digit number on the chart, using cereal or raisins for disks. Ask your child to use his “disks” to demonstrate how to divide the number by 2, 3, or 4.

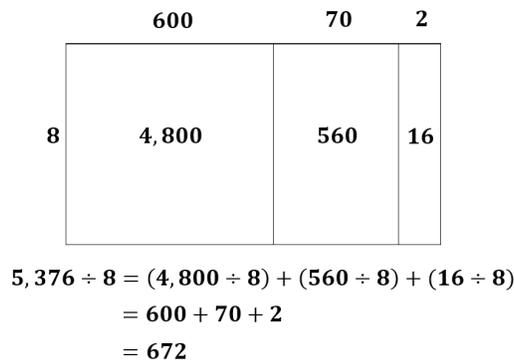
**TERMS**

**Long division:** A process taken to solve a division problem, also known as the standard algorithm for division.

**Remainder:** The number left over when a whole number is divided by another whole number. For example,  $25 \div 6 = 4$  with a remainder of 1.

**MODELS**

**Area Model:** A model used to help solve multiplication and division problems.



**Tape Diagram**

