EUREKA MATH™ TIPS FOR PARENTS

KEY CONCEPT OVERVIEW

In Lessons 1 through 3, students learn about the **area** and **perimeter** of rectangles. They solve word problems by using the formulas for area and perimeter.

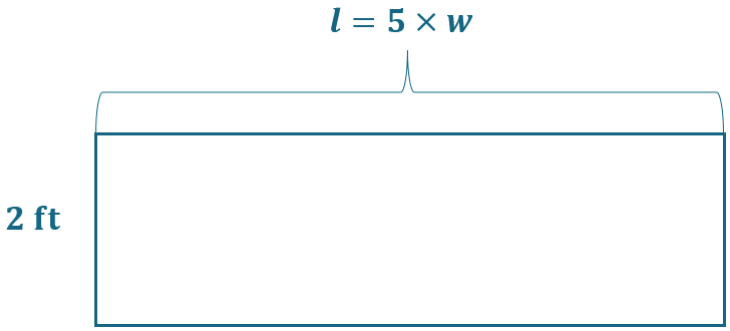
You can expect to see homework that asks your child to do the following:

- Use formulas to find the area, perimeter, and unknown side length(s) of a rectangle.
- Find the side length of a rectangle knowing that it is "___ times as long as" another side.
- Solve word problems by using the formulas for area and perimeter.

SAMPLE PROBLEM *(From Lesson 3)*

Solve the following problem. Use pictures, numbers, or words to show your work.

The length of a rectangular rug is 5 times its width. If the rug's width is 2 feet, what is its area?



$l = 5 \times 2 \text{ ft} = 10 \text{ ft}$
$A = l \times w$
$A = 10 \text{ ft} \times 2 \text{ ft}$
$A = 20 \text{ square ft}$
The area of the rug is 20 square feet.

Additional sample problems with detailed answer steps are found in the *Eureka Math Homework Helpers* books. Learn more at GreatMinds.org.

HOW YOU CAN HELP AT HOME

- With your child, identify rectangular shapes in your home (e.g., window, door, top of table, top of dresser, cookie sheet, place mat, rug). Ask your child to use a tape measure or a ruler to measure the length and the width of each rectangle to the nearest inch. Then have your child find the area and perimeter of each rectangle. Keep in mind that he might need to use a calculator if the numbers are large.
- Find two dice. Give one die to your child, and keep one for yourself. Have your child roll her die. Next, roll your die. Using the number that you rolled, prompt your child to find the number that is "___ times as many as" the number that she rolled. Switch roles, and repeat.

TERMS

Area: The amount of space inside a two-dimensional shape. For example, in rectangles, Area = length × width.

Perimeter: The sum of the side lengths of a closed shape. For example, a square with a side length of 2 inches has a perimeter of 8 inches (i.e., 2 inches + 2 inches + 2 inches + 2 inches = 8 inches).