

**MAIN IDEA**

- Find the areas of rectangles and squares.

**BUILD YOUR VOCABULARY** (pages 2–3)

The area of a figure is the number of  needed to cover a .

A formula is an  that shows a  among certain quantities.

**KEY CONCEPT****Area of a Rectangle**

The area  $A$  of a rectangle is the product of the length  $\ell$  and width  $w$ .

**EXAMPLE Find the Area of a Rectangle**

- 1** Find the area of a rectangle with length 15 feet and width 10 feet.

$$A = \ell w$$

Area of a rectangle

$$A = \text{$$

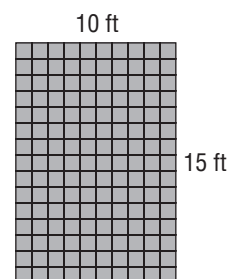
Replace  $\ell$  with

and  $w$  with .

$$A = \text{$$

Multiply.

The area is  square feet.

**Check Your Progress**

Find the area of a rectangle with length 9 meters and width 13 meters.

**EXAMPLE** Find the Area of a Square

- 1** Find the area of a square with side length 7 inches.

$$A = s^2$$

Area of a square

$$A = \boxed{\phantom{00}}$$

Replace  $s$  with  $\boxed{\phantom{00}}$ .

$$A = \boxed{\phantom{00}}$$

Multiply.

The area is  $\boxed{\phantom{00}}$  square inches.**Check Your Progress**

Find the area of a square with side length 11 inches.

**EXAMPLE**

- 5 SPORTS** The outdoor Olympic swimming pool in Volos, Greece, measures 50 meters long and 25 meters wide. What is the area of the pool?

**The length is 50 meters, and the width is 25 meters.**

$$A = \ell w$$

Area of a rectangle

$$A = \boxed{\phantom{00}}$$

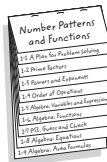
Replace  $\ell$  with  $\boxed{\phantom{00}}$  and  $w$  with  $\boxed{\phantom{00}}$ .

$$A = \boxed{\phantom{00}}$$

Multiply.

The area of the pool is  $\boxed{\phantom{00}}$ .**Check Your Progress****GARDENS** Bill's garden is 18 feet long and 12 feet wide. What is the area of his garden?
**FOLDABLES****ORGANIZE IT**

Write the formula for the area of a rectangle on the Lesson 1-8 tab. Then draw a diagram to describe area.

**HOMEWORK ASSIGNMENT**

Page(s):

Exercises: