$\qquad$ DATE $\qquad$ PERIOD $\qquad$

## 1-9 Study Guide and Intervention

## Algebra: Area Formulas

The area of a figure is the number of square units needed to cover a surface. You can use a formula to find the area of a rectangle. The formula for finding the area of a rectangle is $A=\ell \times w$. In this formula, $A$ represents area, $\ell$ represents the length of the rectangle, and $w$ represents the width of the rectangle.

## Example 1 Find the area of a rectangle with length 8 feet and width 7 feet.

$A=\ell \times w \quad$ Area of a rectangle
$A=8 \times 7 \quad$ Replace $\ell$ with 8 and $w$ with 7 .
$A=56$
The area is 56 square feet.


Example 2 Find the area of a square with side length 5 inches.
$A=s^{2} \quad$ Area of a square
$A=5^{2} \quad$ Replace $s$ with 5.
$A=25$
The area is 25 square inches.


## Exercises

Find the area of each figure.
1.

2.

3.

4.

5. What is the area of a rectangle with a length of 10 meters and a width of 7 meters?
6. What is the area of a square with a side length of 15 inches?

