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, ℓ represents the length of the rectangle, and w represents the width of the rectangle.

Example 1

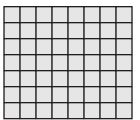
Find the area of a rectangle with length 8 feet and width 7 feet.

 $A = \ell \times w$ Area of a rectangle

 $A = 8 \times 7$ Replace ℓ 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.

 $A = s^2$ Area of a square

 $A = 5^{2}$ Replace s with 5.

A = 25

The area is 25 square inches.



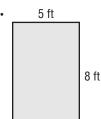
Exercises

Find the area of each figure.

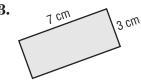
1.

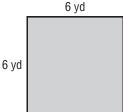


2.



3.





- **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?