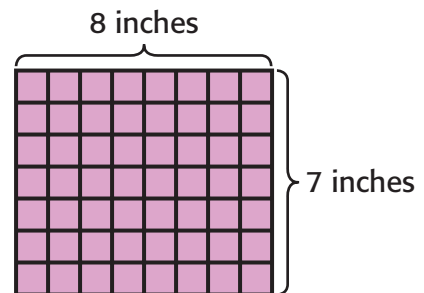# MY Homework

Lesson 6

Area of Rectangles

Homework Helper

eHelp

Need help? ↗ **connectED.mcgraw-hill.com**

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

One Way Tile a rectangle.

1. Tile a rectangle with unit squares. It is 8 unit squares long and 7 unit squares wide.

   Each unit square represents one square inch.

   8 inches

   7 inches

2. Count the unit squares. There are 56 unit squares.

Another Way Use $A = \ell \times w$.
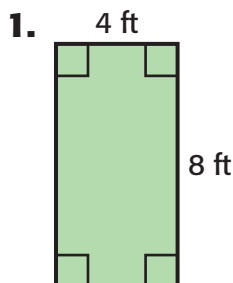
$A = \ell \times w$ Area formula

$A = 8 \times 7$ The length is 8 inches and the width is 7 inches.
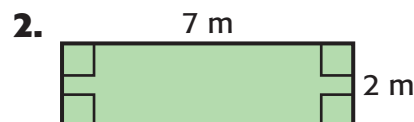
$56 = 8 \times 7$ Multiply.

Area is measured in square units. In this case, it is measured in square inches. So, the area is 56 square inches.
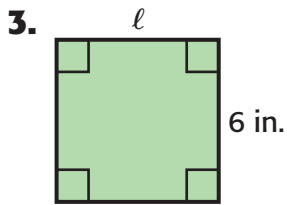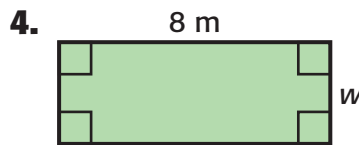
Practice

Find the area of each rectangle.

1. 4 ft

8 ft

__32__ square feet

2. 7 m

2 m

__14__ square meters

Algebra **Find the unknown side. Use the area formula.**

3.

ℓ

6 in.

$36 = \ell \times w$

$36 = \underline{\quad 6 \quad} \times 6$

The unknown is __6__ inches.

4.

8 m

w

$24 = \ell \times w$

$24 = 8 \times \underline{\quad 3 \quad}$

The unknown is __3__ meters.

Vocabulary Check

5. Explain how the equation $A = \ell \times w$ is a formula.
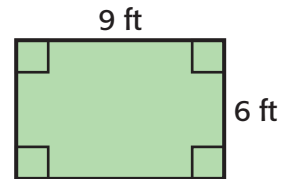
Sample answer: The equation $A = \ell \times w$ uses letters to represent

area, length, and width. The equation shows their relationship.

Problem Solving

For Exercises 6 and 7, use the information below and the rectangle at the right.

Mrs. Morris plans to tile her front hallway shown at the right.

9 ft

6 ft

6. If each tile is 1 foot long and 1 foot wide, how many tiles will she need?

54 tiles

Mathematical
7. **PRACTICE** **1** **Keep Trying** Squares of tile come in packages of 6 tiles. How many packages will Mrs. Morris need?

9 packages

Test Practice

8. Which equation can be used to find the area of the rectangle?

5 cm

10 cm

(A) $5 + 10 = 15$

(C) $5 \times 10 = 50$

(B) $10 - 5 = 5$

(D) $10 \div 5 = 2$