MY Homework

Lesson 6

Area of Rectangles

Homework Helper



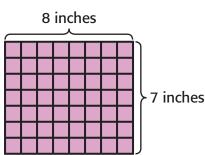
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Find the area of a rectangle with a length of 8 inches and a width of 7 inches.

One Way Tile a rectangle.

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

Each unit square represents one square inch.



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.

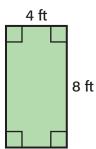
 $56 = 8 \times 7$ Multiply.

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

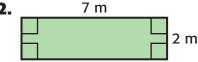
Practice

Find the area of each rectangle.

1.



2.

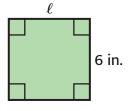


square feet

square meters

Algebra Find the unknown side. Use the area formula.

3.



$$36 = \ell \times w$$

The unknown is inches. 4.



$$24 = \ell \times w$$

The unknown is meters.

Vocabulary Check



5. Explain how the equation $A = \ell \times w$ is a formula.

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

Test Practice

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

(A)
$$5 + 10 = 15$$
 (C) $5 \times 10 = 50$

©
$$5 \times 10 = 50$$

$$\bigcirc 10 - 5 = 5$$

①
$$10 \div 5 = 2$$

