

4TH GRADE

AMERICAN MATH HW - WEEK OF 4NOV TO 8NOV

DUE DATE: SUNDAY, 10NOV BY MIDNIGHT

SUBMIT THROUGH ARCHIE

Show all work

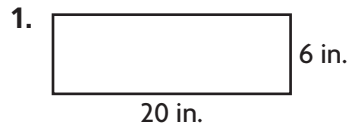
Look at the top right corner of pages for pacing during the week

For additional help on HW or extra practice on the topic, refer to the resources page on Archie

Name \_\_\_\_\_

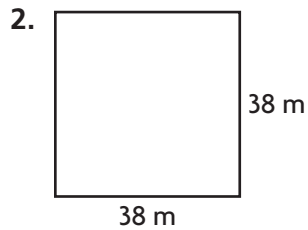
## Apply the Perimeter Formula

Find the perimeter of the rectangle or square.

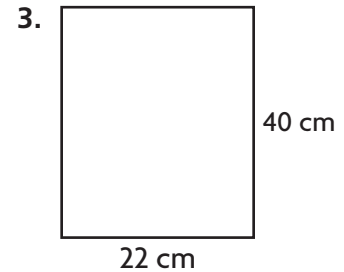


$$2 \times (20 + 6) = 52$$

52 inches



\_\_\_\_\_ meters



\_\_\_\_\_ centimeters

## Problem Solving

4. Tre is making a banner shaped like a square. Each side measures 24 inches. He wants to add a border along all sides. He has 75 inches of border. Does he have enough border?  
**Explain.**
5. The width of the play area at a park is 80 feet. The length is three times as long as its width. What is the perimeter of the play area?

\_\_\_\_\_

\_\_\_\_\_

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Name \_\_\_\_\_

# Find the Area

**Solve each problem.**

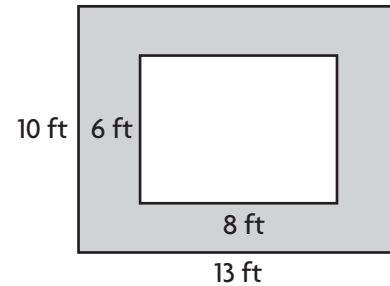
1. A room has a wooden floor. There is a rug in the center of the floor. The diagram shows the room and the rug. How many square feet of the wood floor still shows?

**82 square feet**

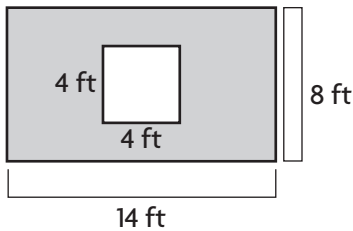
Area of the floor:  $13 \times 10 = 130$  square feet

Area of the rug:  $8 \times 6 = 48$  square feet

Subtract to find the area of the floor still showing:  $130 - 48 = 82$  square feet

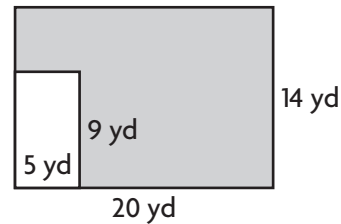


2. A rectangular wall has a square window, as shown in the diagram.



What is the area of the wall NOT including the window?

3. Bob wants to put down new sod in his backyard, except for the part set aside for his flower garden. The diagram shows Bob's backyard and the flower garden.



How much sod will Bob need?

4. A rectangular painting is 24 inches wide and 20 inches tall without the frame. With the frame, it is 28 inches wide and 24 inches tall. What is the area of the frame not covered by the painting?

## Lesson Check

6. One wall in Zoe's bedroom is 5 feet wide and 8 feet tall. Zoe puts up a poster of her favorite athlete. The poster is 2 feet wide and 3 feet tall. How much of the wall is not covered by the poster?
7. A garage door is 15 feet wide and 6 feet high. It is painted white, except for a rectangular panel 1 foot high and 9 feet wide that is brown. How much of the garage door is white?

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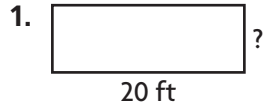
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## Find Unknown Measures

Find the unknown measure of the rectangle.



Perimeter = 54 feet

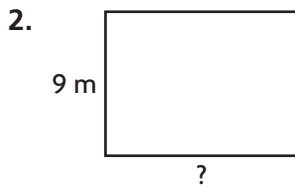
width = 7 feet

**Think:**  $P = (2 \times l) + (2 \times w)$

$$54 = (2 \times 20) + (2 \times w)$$

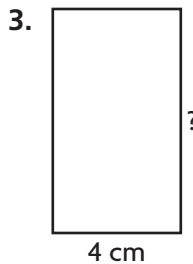
$$54 = 40 + (2 \times w)$$

Since  $54 = 40 + 14$ ,  $2 \times w = 14$ , and  $w = 7$ .



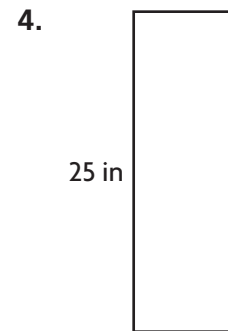
Perimeter = 42 meters

length = \_\_\_\_\_



Area = 28 square centimeters

height = \_\_\_\_\_



Area = 200 square inches

base = \_\_\_\_\_

## Problem Solving

5. Ana is an organic vegetable grower.

The perimeter of her rectangular vegetable garden is 72 yards. The width of the vegetable garden is 9 yards. How long is the vegetable garden?

\_\_\_\_\_

6. The area of a rectangular photograph is 35 square inches. If the width of the photo is 5 inches, how tall is the photo?