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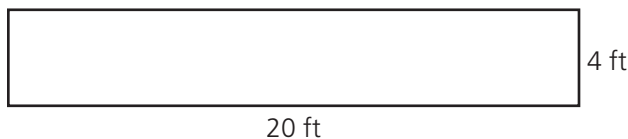
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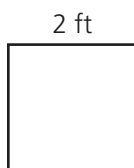


### Focus Lesson

**Perimeter** is the distance around a figure. To find the perimeter, add the lengths of the sides. For a rectangle, use the formula  $Perimeter = 2 \times length + 2 \times width$ .

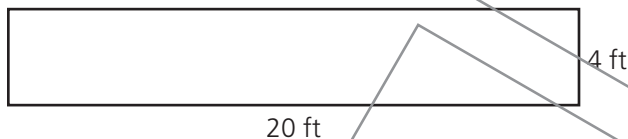


The perimeter of this rectangle is 48 feet.  
 $20 + 4 + 20 + 4 = 48$  feet  
 $2 \times 20 + 2 \times 4 = 40 + 8 = 48$  feet



The perimeter of the square is 8 feet:  $2 + 2 + 2 + 2 = 8$  or  $4 \times 2 = 8$

**Area** is the space inside a figure. It is measured in square units. For a rectangle, use the formula  $Area = length \times width$ .



The area of this rectangle is 80 square feet.  
 $20 \times 4 = 80$  square feet



The area of Jan's painting is 18 square feet. The length of the painting is 6 feet. What is the width of the painting?

\_\_\_\_\_ feet

- 1 What is the area of the painting? \_\_\_\_\_ What is the length? \_\_\_\_\_
- 2 What is the formula for the area of a rectangle? \_\_\_\_\_
- 3 Rewrite the formula for the area. Fill in the measurements that you know. Use  $w$  for the measurement you do not know. \_\_\_\_\_
- 4 What operation is the opposite of multiplication? \_\_\_\_\_
- 5 How can you find the width of the painting? \_\_\_\_\_

What is the width of the painting?

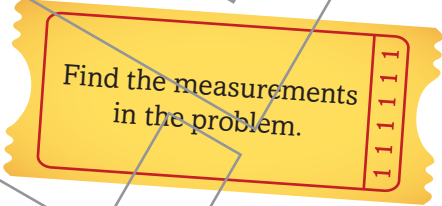


# Guided Practice

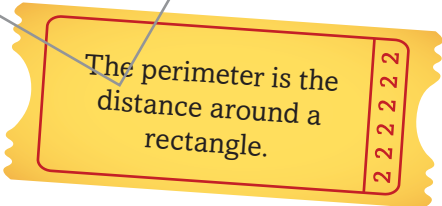
Hallie's porch is shaped like a rectangle. It has a length of 10 feet and a width of 5 feet. What is the perimeter of the porch?

\_\_\_\_\_ feet

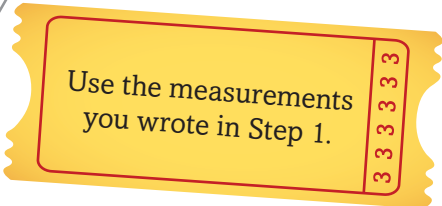
- 1 What is the length of the porch? \_\_\_\_\_  
The width? \_\_\_\_\_



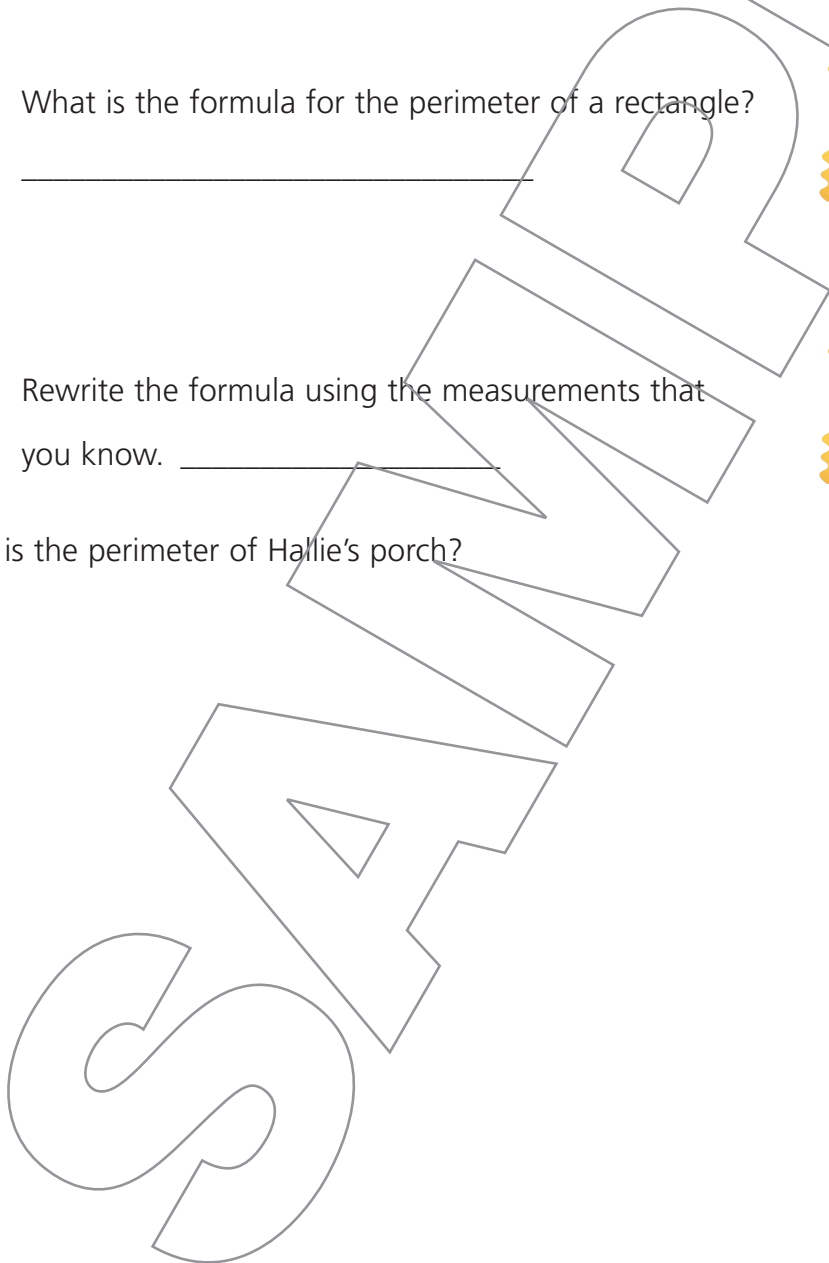
- 2 What is the formula for the perimeter of a rectangle?  
\_\_\_\_\_



- 3 Rewrite the formula using the measurements that you know. \_\_\_\_\_



What is the perimeter of Hallie's porch?



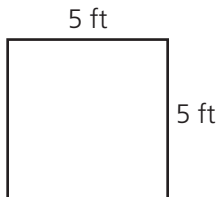


## Independent Practice

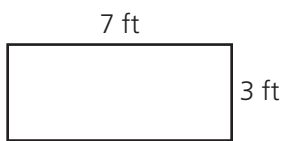
Solve the following problems.

- 1 A gardener is making a plan for a rectangular garden. The gardener has 20 feet of fencing to put around the garden. The area of the garden must be 22 square feet or more. Which of the rectangles shown below could be the gardener's plan? Mark all that apply.

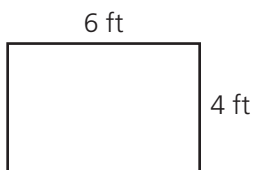
A



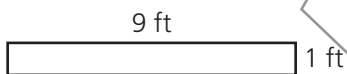
B



C



D



E





# Independent Practice

2 Each rectangle shown below has an area of 24 square centimeters. The width of each rectangle is shown. Write the correct length for each rectangle. Use the lengths in the box.



3 cm

\_\_\_\_\_



4 cm

\_\_\_\_\_



1 cm

\_\_\_\_\_



2 cm

\_\_\_\_\_

24 cm	9 cm	10 cm
20 cm	8 cm	11 cm
12 cm	6 cm	

3 Match each rectangle to its width. Use the widths in the box.

Rectangle A: length = 5 m, perimeter = 14 m, width = \_\_\_\_\_

Rectangle B: length = 7 m, perimeter = 16 m, width = \_\_\_\_\_

Rectangle C: length = 8 m, perimeter = 22 m, width = \_\_\_\_\_

Rectangle D: length = 6 m, perimeter = 20 m, width = \_\_\_\_\_

4 m
3 m
2 m
1 m

4 A rectangular poster is being designed with a width of 10 feet. The perimeter of the poster must be between 45 and 51 feet. Circle all of the possible measures that could be the length of the poster.

- 11 feet      12 feet      13 feet
- 14 feet      15 feet      16 feet



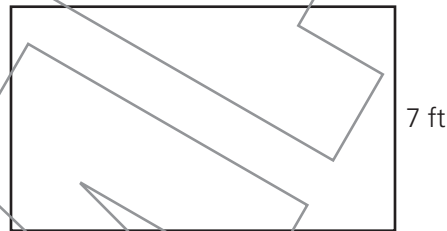
## Independent Practice

- 5 Four different rectangles each have an area equal to 40 square inches. Match the correct length with each width for the rectangles.

Width	Length
1 inch	
2 inches	
4 inches	
5 inches	

Lengths
10 inches
8 inches
40 inches
20 inches

- 6 Nathan found the area of the rectangle shown. His work is shown below. Explain if Nathan is correct.



$length = 12 \text{ feet}$   
 $width = 7 \text{ feet}$   
 $Area = 2 \times 12 + 2 \times 7 = 38 \text{ square feet}$

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