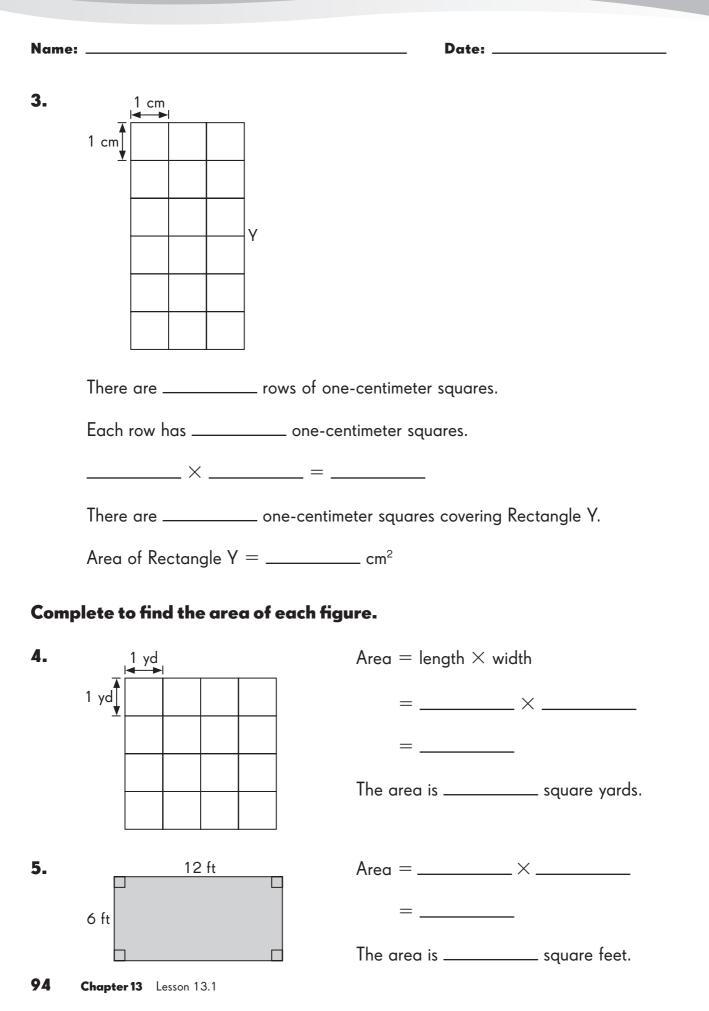
Name: .



## Lesson 13.1 Area of a Rectangle

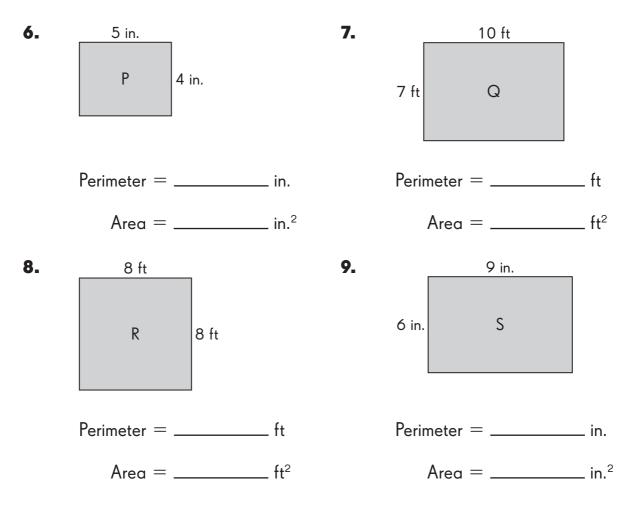
#### Find the area of each figure.

1.	1 in. I <b>∢ →</b> I
	1 in.
	There are rows of one-inch squares.
	Each row has one-inch squares.
	× =
	There are one-inch squares covering Rectangle X.
	Area of Rectangle $X = $ in. <sup>2</sup>
2.	1 yd
	There is/are row(s) of one-yard squares.
	Each row has one-yard squares.
	× =
	There are one-yard squares covering Rectangle W.
	Area of Rectangle W = yd <sup>2</sup>



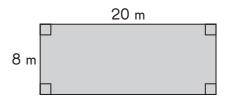
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	u	c	

#### Find the perimeter and area of each rectangle or square.



#### Solve.

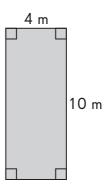
**10.** A rectangular field measures 20 meters by 8 meters. What is the area of the rectangular field?



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#### Solve.

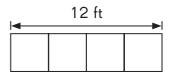
**11.** James wants to put carpet in his living room. The living room measures 10 meters by 4 meters. What is the area of his living room?



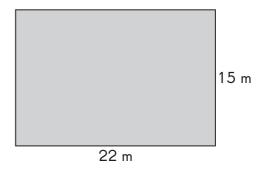
12. Helen has a piece of wrapping paper that measures 60 centimeters by 9 centimeters. She uses half of it to wrap a birthday gift. What is the area of the piece of wrapping paper Helen has left?

#### Solve.

**13.** Four identical square tables are arranged next to each other to form one large rectangular table. The length of the large rectangular table is 12 feet. What is the area of each square table?

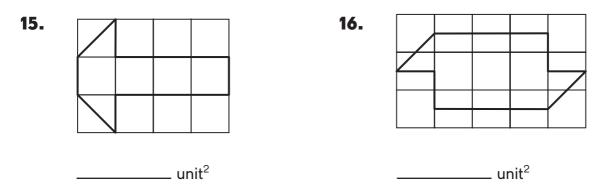


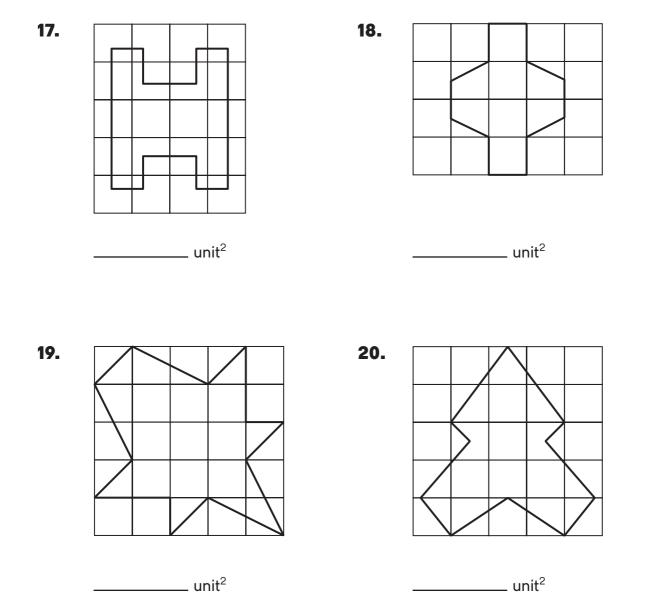
**14.** A rectangular garden measures 15 meters by 22 meters. What is the cost of putting a fence around the garden if 1 meter of fencing costs \$10?



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#### Estimate the area of each figure in square units.

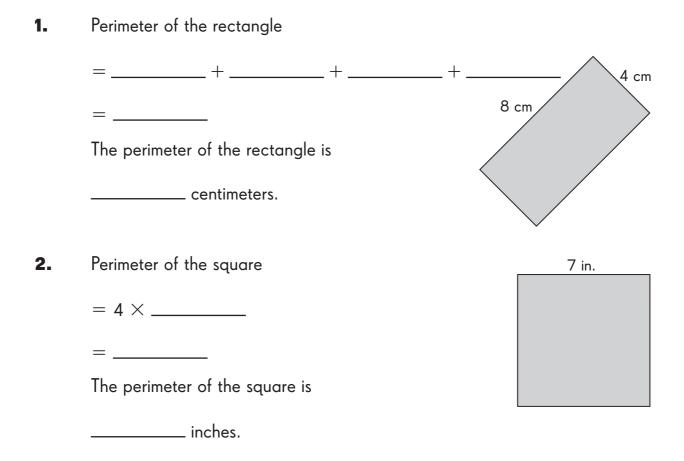




Name: \_\_\_\_\_

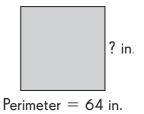
## Lesson 13.2 Rectangles and Squares (Part 1)

#### Find the perimeter of each figure.



#### Solve.

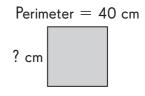
**3.** A square piece of cardboard has a perimeter of 64 inches. Find the length of one side of the cardboard.



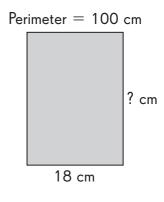
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#### Solve.

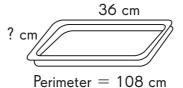
**4.** The perimeter of a square coaster is 40 centimeters. Find the length of one side of the coaster.



**5.** A rectangular shoe box has a width of 18 centimeters. Its perimeter is 100 centimeters. Find the length of the box.



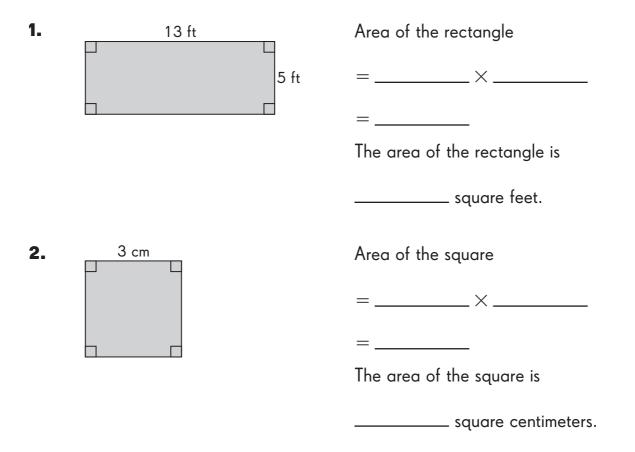
**6.** A rectangular tray has a perimeter of 108 centimeters. Its length is 36 centimeters. Find the width of the tray.



Name: \_

## Lesson 13.2 Rectangles and Squares (Part 2)

#### Find the area of each figure.



#### Solve.

**3.** The area of a rectangular field is 126 square yards. The width of the field is 9 yards. Find the length of the field.

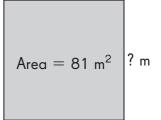
? yd
$$Area = 126 yd^2 \qquad 9 yd$$

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#### Solve.

The area of a square is 81 square meters. Find the length of one side 4. of the square.

Hint: What number multiplied by itself is equal to 81?



- The area of a square poster is 144 square centimeters. 5.
  - Find the length of each side of the poster. a.
  - Find the perimeter of the poster. b.

- A rectangular photo frame has an area of 200 square centimeters. Its length 6. is 20 centimeters.
  - Find the width of the photo frame. a.
  - Find the perimeter of the photo frame. b.

Name:	
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#### Solve.

- **7.** The area of a rectangular piece of land is 240 square yards. Its width is 15 yards.
  - **a.** Find the length of the land.
  - **b.** Find the perimeter of the land.

- **8.** The area of a square pond is 121 square meters.
  - **a.** Find the length of one side of the pond.
  - **b.** Find the perimeter of the pond.

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#### Solve.

- **9.** The perimeter of a rectangle is 52 centimeters. Its width is 10 centimeters.
  - **a.** Find the length of the rectangle.
  - **b.** Find the area of the rectangle.

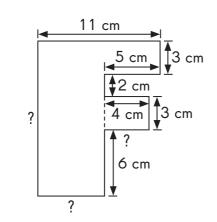
- **10.** The perimeter of a rectangle is 54 inches. Its length is two times its width.
  - **a.** Find the length and width of the rectangle.
  - **b.** Find the area of the rectangle.

Name: \_

1.

## Lesson 13.3 Composite Figures

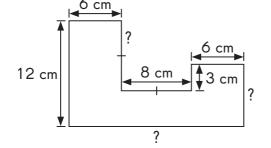
Find the lengths of the unknown sides of each figure. Then find the perimeter of each figure.



Length of first unknown side =	_ cm
Length of second unknown side =	cm
Length of third unknown side =	_ cm

Perimeter = \_\_\_\_\_ cm

2.



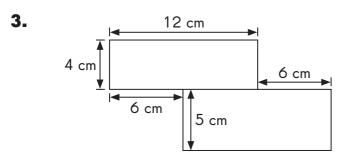
Length of first unknown side = \_\_\_\_\_ cm Length of second unknown side = \_\_\_\_\_ cm Length of third unknown side = \_\_\_\_\_ cm

Perimeter = \_\_\_\_\_ cm

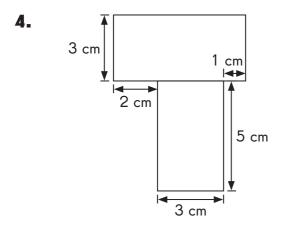
Name: .

Date: \_\_

#### Solve. Show your work.







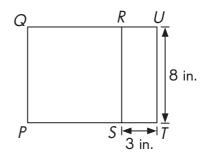


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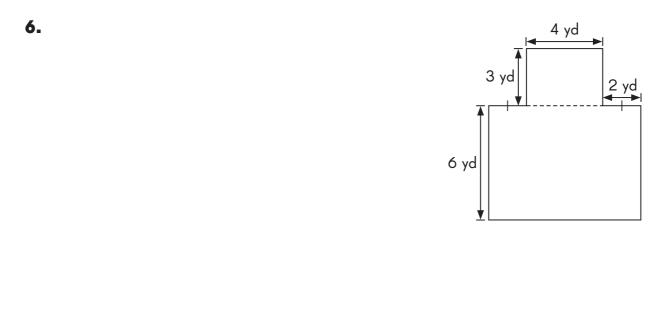
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Date: _
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#### Find the area of each composite figure. Show your work.

5. The figure is made up of a square *PQRS* and a rectangle *RSTU*.



Area = \_\_\_\_\_ in.<sup>2</sup>



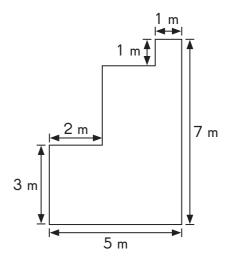
Name:
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Find the area of each composite figure. Show your work.



$$Area =$$
\_\_\_\_\_ft<sup>2</sup>

8.



$$Area = \_ m^2$$

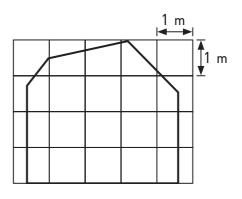
## Lesson 13.4 Using Formulas for Area and Perimeter

#### Solve. Show your work.

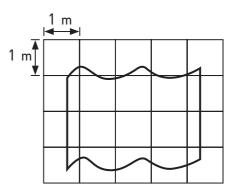
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**1.** A wall in Jason's room is in the shape shown below.

- **a.** Estimate, in square meters, the area of the wall.
- **b.** Jason wants to wallpaper his wall. A roll of wallpaper is 3 meters wide. What is the length of wallpaper Jason should buy?



- **2.** A banner is in the shape shown below.
  - **a.** Estimate the banner's area.
  - **b.** Jamie wants to buy cloth to make the banner. One square meter of cloth costs \$10. How much will Jamie have to spend?



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12 in.

9 in.

7 in.

#### Solve. Show your work.

**3.** In the figure, the area of the shaded border is 87 square inches. Find the area of the large rectangle.

Area of the small rectangle

- = \_\_\_\_\_ × \_\_\_\_\_
- =\_\_\_\_\_

Area of the large rectangle

- = Area of the small rectangle + area of the shaded border
- = \_\_\_\_\_ + \_\_\_\_\_
- =\_\_\_\_\_

The area of the large rectangle is \_\_\_\_\_\_ square inches.

**4.** The border of a square garden has a width of 6 feet. What is the area of the shaded border?

Area of the large square

- = \_\_\_\_\_ × \_\_\_\_\_
- =\_\_\_\_\_

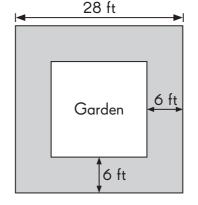
Area of the small square

= \_\_\_\_\_ × \_\_\_\_\_

=\_\_\_\_\_

Area of the shaded border

= \_\_\_\_\_ - \_\_\_\_





The area of the shaded border is \_\_\_\_\_\_ square feet.

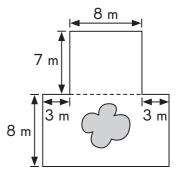
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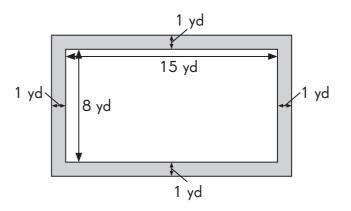
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#### Solve. Show your work.

5. The area of the shaded part in the figure is 39 square meters. Find the area of the unshaded part of the figure.



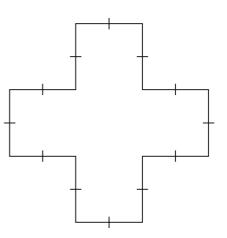
6. A rectangular field measuring 15 yards by 8 yards has a path 1 yard wide around it. Find the area of the path.



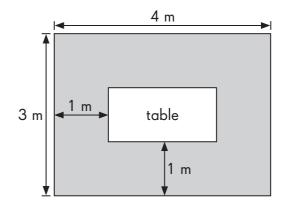
Name:
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#### Solve. Show your work.

- **7.** The figure is made up of five identical squares. The area of the figure is 405 square inches.
  - **a.** Find the area of each square.
  - **b.** Find the perimeter of the figure.



- 8. A coffee table is centered in a rectangular room as shown in the diagram.
  - **a.** Find the area of the table.
  - **b.** Find the perimeter of the room.



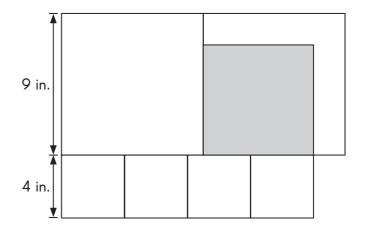
# Put On Your Thinking Cap!

#### Solve. Show your work.

- **1.** The figure is made up of two rectangles, A and B. The length of Rectangle A is  $\frac{1}{4}$  the length of Rectangle B. The area of Rectangle B is 384 square inches.
  - **a.** Find the area of Rectangle A.
  - **b.** What is the perimeter of the figure?

8 in. A B  
Area = 
$$384 \text{ in.}^2$$

2. The figure is made up of two identical large squares and four identical small squares. Each side of a large square is 9 inches long, while each side of a small square is 4 inches long. The shaded part is also a square. What is the area of the shaded square?



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**3.** The figure is made up of 9 identical rectangles. The total area of the figure is 288 square centimeters. Find the perimeter of the figure.