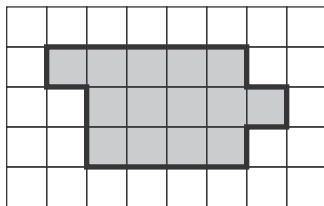


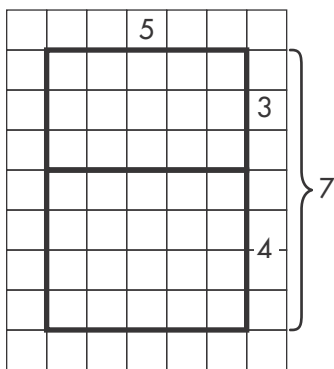
Name \_\_\_\_\_

1. Count to find the area of the shape. Tell if the area is exact or an estimate.

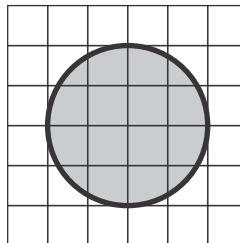


= 1 unit square

2. Use the Distributive Property to write the equation that represents the picture. Then give the area of each smaller rectangle and the large rectangle.

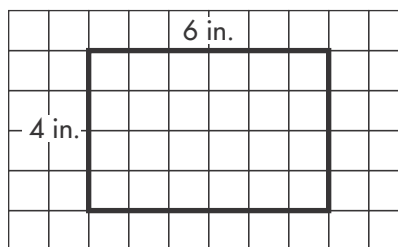


3. Kaitlin says that the figure below has an area of 6 square yards. Is she correct? Explain.



= 1 square foot

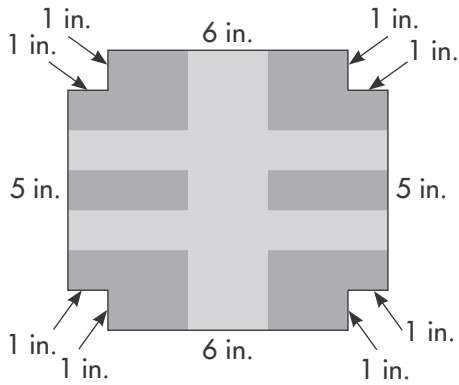
4. Select all of the ways to break apart the area of the large rectangle into the sum of the areas of two smaller rectangles. Then give the area of the large rectangle.



- $4 \times 6 = 4 \times (4 + 2) = (4 \times 4) + (4 \times 2)$
- $4 \times 6 = 4 \times (6 + 1) = (4 \times 6) + (4 \times 1)$
- $4 \times 6 = 4 \times (1 + 5) = (4 \times 1) + (4 \times 5)$
- $4 \times 6 = 4 \times (3 + 3) = (4 \times 3) + (4 \times 3)$
- $4 \times 6 = 4 \times (3 + 1) = (4 \times 3) + (4 \times 1)$

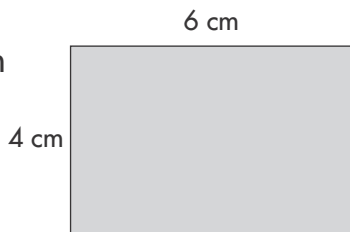
Area =  square inches

5. What is the total area of the design below?



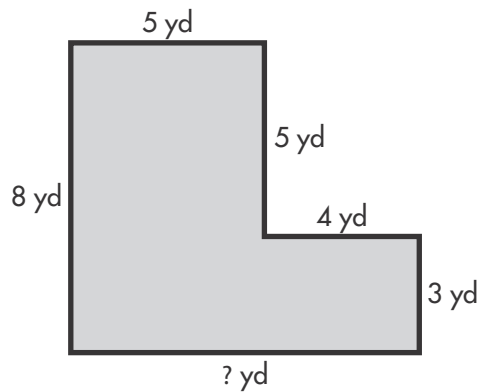
- (A)  $6 \times 5 = 30$  square inches
- (B)  $6 \times 8 = 48$  square inches
- (C)  $(6 \times 7) + (5 \times 1) + (5 \times 1) = 52$  square inches
- (D)  $(6 \times 7) + (5 \times 8) = 82$  square inches

6. Josie draws a rectangle. Explain how to find the area using the Distributive Property.

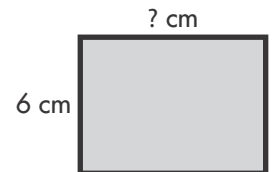


7. One side of a square garden is 8 feet long. How can you find the area of the garden?

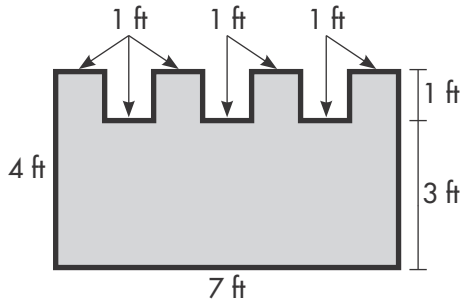
8. Find the missing side length. Then find the area and explain how to find it.



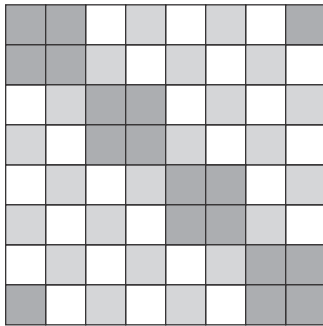
9. This rectangle has an area of 42 square centimeters. What is the missing length? Use an equation to explain.



10. What is the area of Jo's figure? Explain.



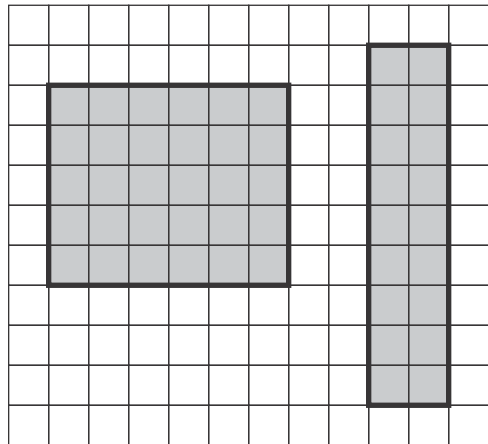
11. Taylor makes a floor mosaic with 1-foot tiles. Do the white, light gray, or dark gray tiles cover the greatest area?



12. The length of four rectangles is 8 cm. Select the correct area of each rectangle with the given width.

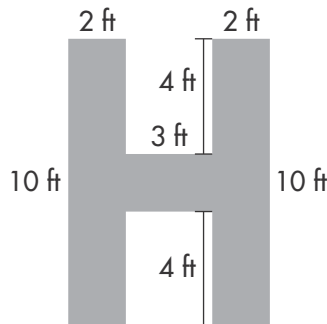
	48 sq cm	40 sq cm	32 sq cm	64 sq cm
4 cm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6 cm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8 cm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5 cm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

13. Explain how to find the area of each rectangle and the total area of the rectangles.



= 1 square centimeter

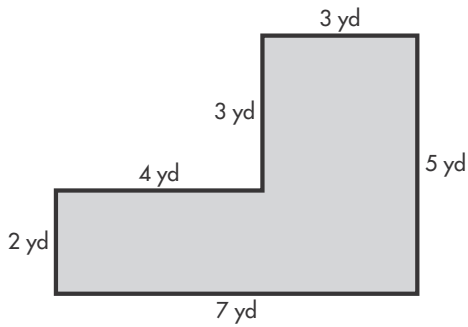
14. Some students make a parade float with the letter *H* on it. Draw lines to divide the shape into rectangles. Then find its area.



- Ⓐ 20 square feet
- Ⓑ 46 square feet
- Ⓒ 40 square feet
- Ⓓ 80 square feet

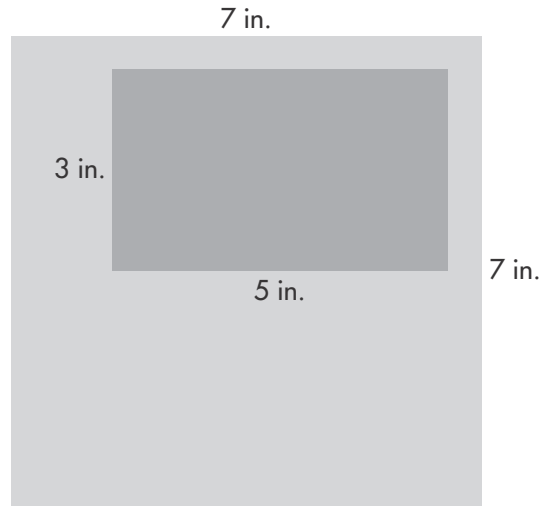
15. Ron draws 2 rectangles, each with an area of 18 square centimeters. What could be the side lengths of Ron's rectangles? Show how he could use the Distributive Property to represent the area in each case.

16. Mr. Wolfe builds a new deck in the shape shown below. Explain how to find the area of the deck, and solve.



17. Show 2 different unit squares that you can use to measure the area of these rectangles. Find the area with your unit squares.

18. Isabella wants to know the area of the light gray part of this design.



- A. Explain how you can break this problem into simpler problems.

- B. Find the light gray area. Show your work.