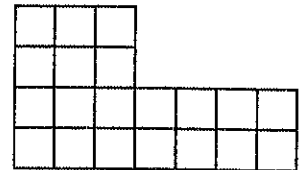




## Area of Combined Rectangles

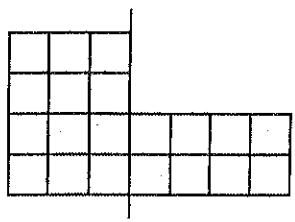
**OBJECTIVE** Apply the Distributive Property to area models and to find the area of combined rectangles.

You can break apart a shape into rectangles to find the total area of the shape.



**Step 1** Draw a line to break apart the shape into two rectangles.

**Step 2** Count the number of unit squares in each rectangle.



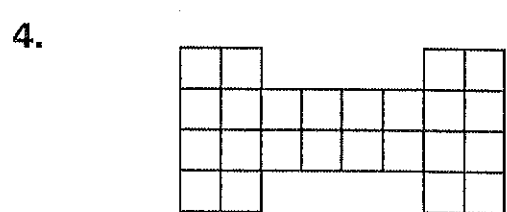
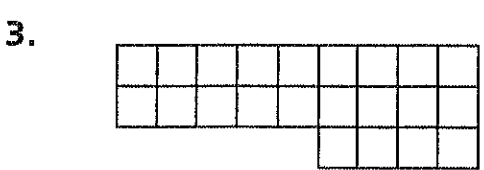
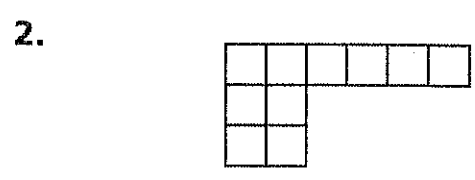
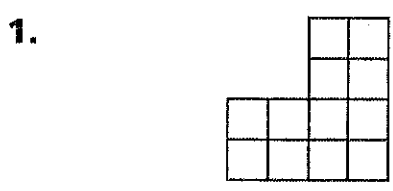
1	2	3						
4	5	6						
7	8	9	1	2	3	4		
10	11	12	5	6	7	8		
			12	8				

**Step 3** Add the number of unit squares in each rectangle to find the total area.

$$12 + 8 = 20 \text{ unit squares}$$

So, the area of the shape is **20** square units.

Draw a line to break apart the shape into rectangles. Find the area of the shape.

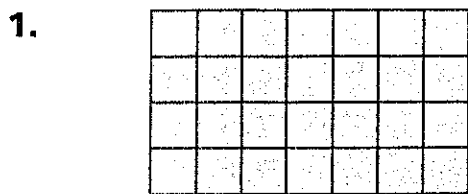


Name \_\_\_\_\_



## Area of Combined Rectangles

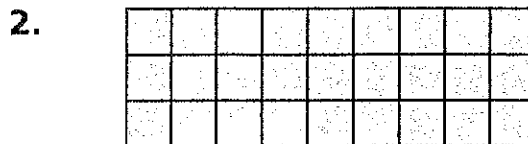
Use the Distributive Property to find the area.  
Show your multiplication and addition equations.



$4 \times 2 = 8; 4 \times 5 = 20$

$8 + 20 = 28$

28 square units

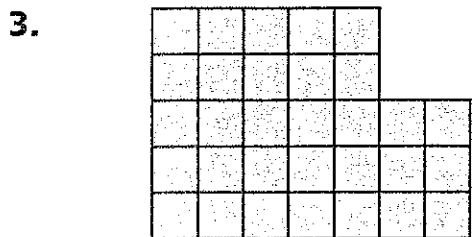


\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_ square units

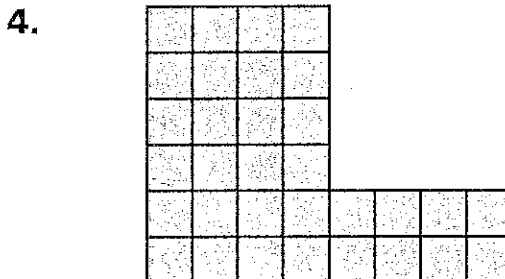
Draw a line to break apart the shape into rectangles. Find the area of the shape.



Rectangle 1: \_\_\_\_\_  $\times$  \_\_\_\_\_ = \_\_\_\_\_

Rectangle 2: \_\_\_\_\_  $\times$  \_\_\_\_\_ = \_\_\_\_\_

\_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_ square units



Rectangle 1: \_\_\_\_\_  $\times$  \_\_\_\_\_ = \_\_\_\_\_

Rectangle 2: \_\_\_\_\_  $\times$  \_\_\_\_\_ = \_\_\_\_\_

\_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_ square units

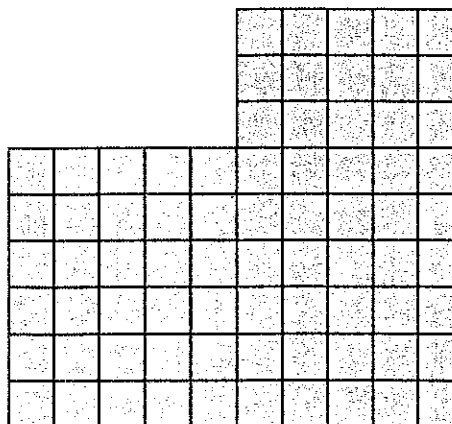
## Problem Solving

A diagram of Frank's room is at right.  
Each unit square is 1 square foot.

5. Draw a line to divide the shape of Frank's room into rectangles.

6. What is the total area of Frank's room?

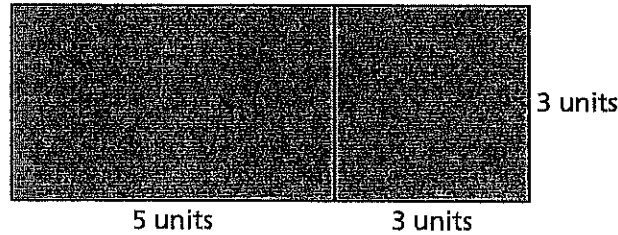
\_\_\_\_\_ square units



Write the correct answer.

*Show your work.*

1. What is the area of the figure?



\_\_\_\_\_

2. The area of a rectangle is 80 square units. The length of one of the shorter sides is 8 units. What is the length of one of the longer sides?

\_\_\_\_\_

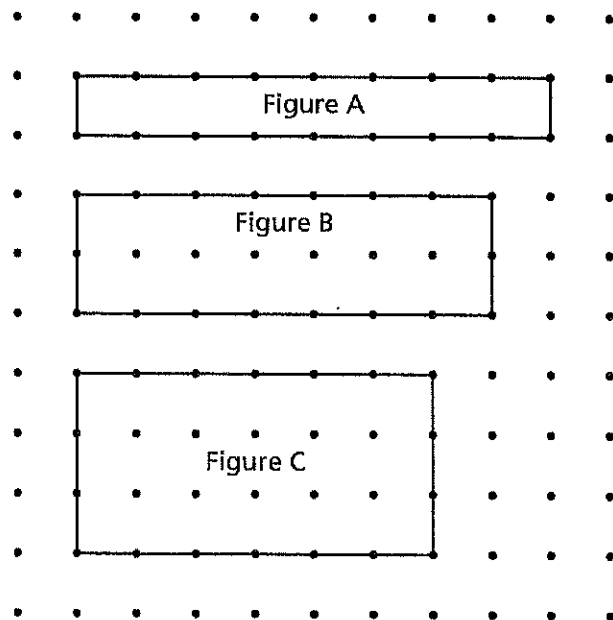
3. Rectangles *A* and *B* have the same areas. Rectangle *A* is 3 inches wide and 8 inches long. If Rectangle *B* is 4 inches wide, how long is it?

\_\_\_\_\_

Use the centimeter dot grid for 4–5.

4. Which figure has an area of 18 square centimeters?

\_\_\_\_\_



5. What is the perimeter of each figure?

\_\_\_\_\_