

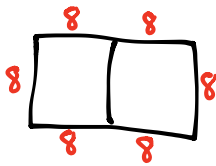
Name _____

Date _____

1. Katherine puts two squares together to make the rectangle below. The side lengths of the squares measure 8 inches.



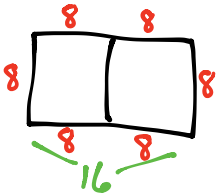
- a. What is the perimeter of the rectangle Katherine made with her 2 squares?



$$6 \times 8 \text{ in} = 48 \text{ in}$$

The perimeter is 48 in.

- b. What is the area of Katherine's rectangle?



$$8 \text{ in} \times 16 \text{ in} = 128 \text{ sq in}$$

The area is 128 sq in.

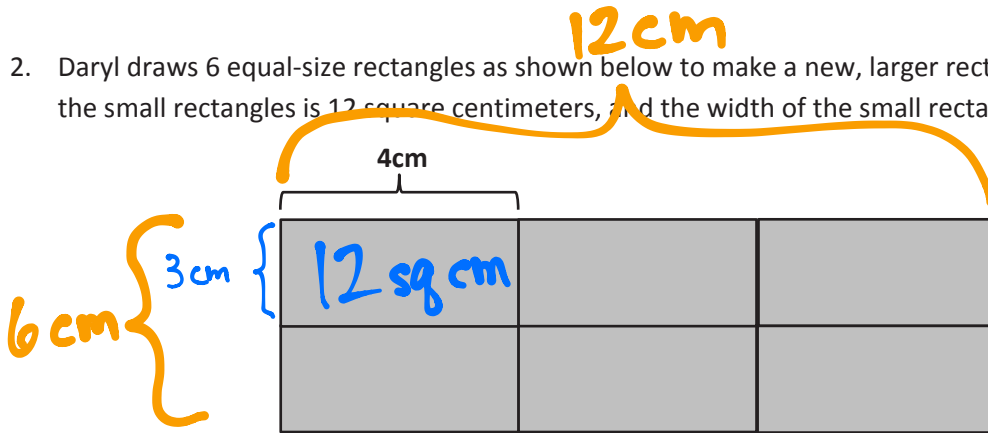
- c. Katherine decides to draw another rectangle of the same size. What is the area of the new, larger rectangle?



$$\begin{array}{r} 128 \\ + 128 \\ \hline 256 \end{array}$$

The area is 256 square inches.

2. Daryl draws 6 equal-size rectangles as shown below to make a new, larger rectangle. The area of one of the small rectangles is 12 square centimeters, and the width of the small rectangle is 4 centimeters.



- a. What is the perimeter of Daryl's new rectangle?

$$6\text{ cm} + 12\text{ cm} + 6\text{ cm} + 12\text{ cm} = 36\text{ cm}$$

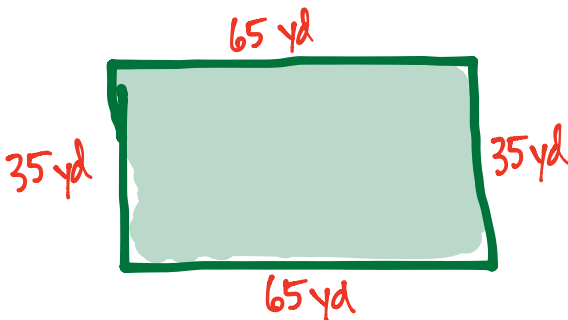
The perimeter of the new rectangle is 36 cm.

- b. What is the area of Daryl's new rectangle?

$$6\text{ cm} \times 12\text{ cm} = 72\text{ sq cm}$$

The area is 72 sq cm.

3. The recreation center soccer field measures 35 yards by 65 yards. Chris dribbles the soccer ball around the perimeter of the field 4 times. What is the total number of yards Chris dribbles the ball?



$$35\text{ yd} + 65\text{ yd} + 35\text{ yd} + 65\text{ yd} = 200\text{ yd}$$

$$4 \times 200\text{ yd} = 800\text{ yd}$$

Once around the field is 200 yards, so four times around is 800 yards.