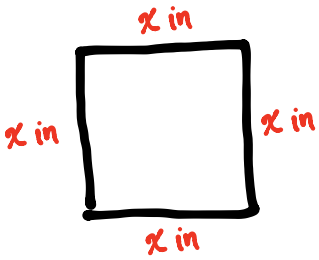
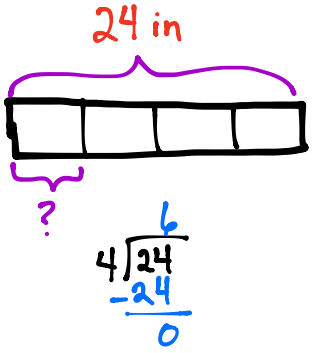
Name _____ Date _____

1. Brian draws a square with a perimeter of 24 inches. What is the width and length of the square?

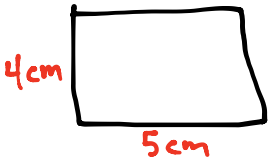




The width and length of the square is 6 inches.

2. A rectangle has a perimeter of 18 centimeters.

   a. Estimate to draw as many different rectangles as you can that have a perimeter of 18 centimeters. Label the width and length of each rectangle.



   b. How many different rectangles did you find?

There are 4 rectangles with perimeters of 18 centimeters, assuming we use only whole-numbered side lengths. There are an infinite number of rectangles if we are allowed to use fractional side lengths.

   c. Explain the strategy you used to find the rectangles.

I made the side length 1 cm and found the remaining side length. Then I increased it to 2 cm, then 3 cm, and then 4 cm. Each time I would find the remaining side length.

3. The chart below shows the perimeters of three rectangles.

   a. Write possible widths and lengths for each given perimeter.

Rectangle	Perimeter	Width and Length
A	6 cm	1 cm by 2 cm
B	10 cm	2 cm by 3 cm
C	14 cm	2 cm by 5 cm

   b. Double the perimeters of the rectangles in Part (a). Then, find possible widths and lengths.

Rectangle	Perimeter	Width and Length
A	12 cm	2 cm by 4 cm
B	20 cm	4 cm by 6 cm
C	28 cm	4 cm by 10 cm