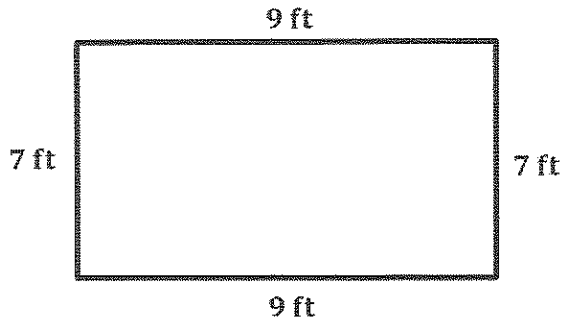
G3-M7-Lesson 15

1. Mr. Kim builds a 7 ft by 9 ft rectangular fence around his vegetable garden. What is the total length of Mr. Kim's fence?

I know that I need to draw and label a rectangle to represent Mr. Kim's fence. I can label all the side lengths of my rectangle because I know that opposite sides of a rectangle are equal.

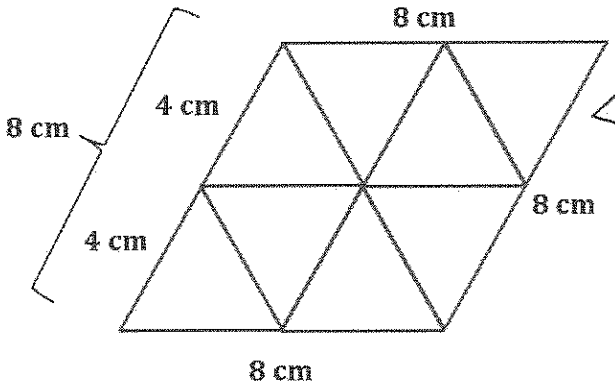


There are different strategies to find the perimeter of this rectangle. I could add 7 and 9 and then double the sum, or I can multiply each side length by 2 and then add the products just like I did here.

$$P = (2 \times 7 \text{ ft}) + (2 \times 9 \text{ ft})$$
$$= 14 \text{ ft} + 18 \text{ ft}$$
$$= 32 \text{ ft}$$

The total length of Mr. Kim's fence is 32 feet.

2. Gracie uses regular triangles to make the shape below. Each side length of a triangle measures 4 cm. What is the perimeter of Gracie's shape?



I know that each side length of the regular triangle is 4 cm. Since each side length of Gracie's larger shape is made up of 2 sides of a triangle, the side length of the larger shape is 8 cm. Now I can find the perimeter of her shape by writing a repeated addition sentence or multiplying the 4 side lengths by 8 cm.

$$P = 4 \times 8 \text{ cm} = 32 \text{ cm}$$

The perimeter of Gracie's shape is 32 cm.

Gracie's new shape has 4 equal sides and no right angles. It's a rhombus!