

Name _____

Date _____

Perimeter of Polygons In Word Problems - Guided Lesson Explanation

Explanation to #1

Step 1) We need to remember that we can find the perimeter of a rectangle by adding the lengths of the sides.

Add the lengths:

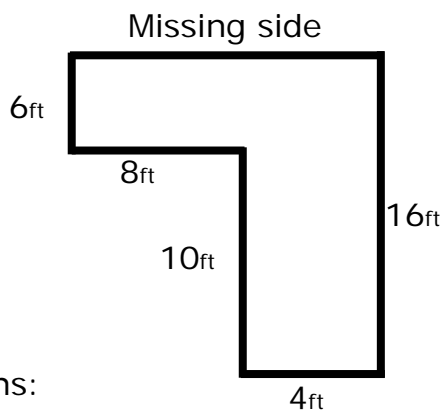
$$10 + 15 + 10 + 15 = 50$$

So, the perimeter is 50 meters.

Explanation to #2

Step 1) First we have to see what we have to calculate the total length of the path. That has already been done for us. We know it is 56 ft.

Step 2) To find the perimeter of path, add all the lengths. Let x equal the length of the missing side



Add lengths:

$$X + 16 + 4 + 10 + 8 + 6 = 56 \text{ ft}$$

$$X + 44 = 56 \text{ ft}$$

$$X = 56 - 44$$

$$X = 12$$

So the length of the path is 12 ft.



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Explanation to # 3

Step 1) To find how much rope we need we will need to find the perimeter of the garden.

Step 2) Add all the lengths of the garden to find the perimeter of the garden.

$$10 + 5 + 10 + 5 = 30 \text{ yards}$$

So the length of rope needed will be 30 yards to fence the garden.

