

**Lesson:** Finding the area of rectangles and squares (enrichment)

**4<sup>th</sup> Grade Objective:** 2.01 – Solve problems involving perimeter of plane figures and rectangles.

**Vocabulary:** Perimeter is the distance around the outside of a figure. To find the perimeter of any figure, add up the lengths of all its sides.

**Example:**



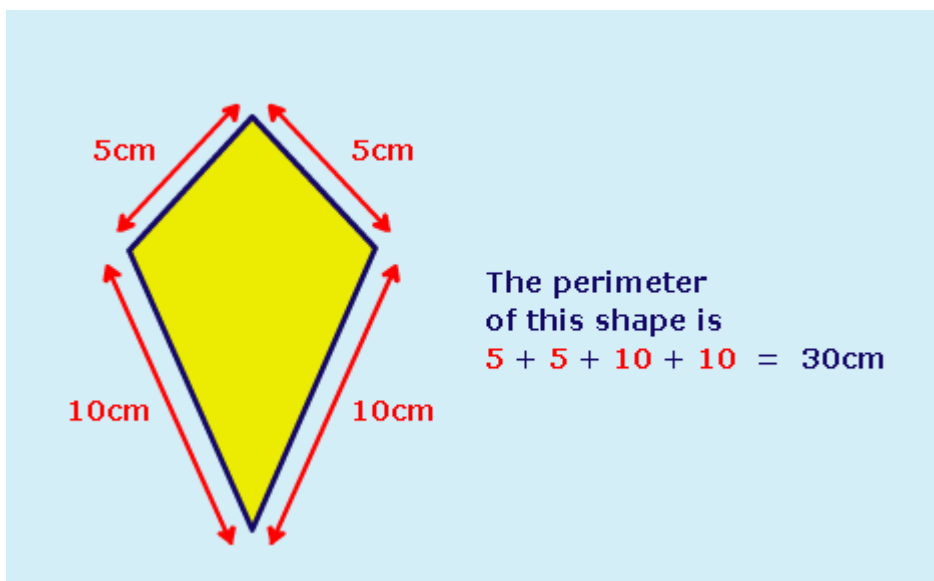
To find the perimeter of this rectangle, we add up the distances of each side. Since a rectangle has four sides, we must be sure to add up the distance of all four sides.

$$P = \text{side} + \text{side} + \text{side} + \text{side}$$

$$P = 50 + 10 + 50 + 10$$

$$P = 60 + 60$$

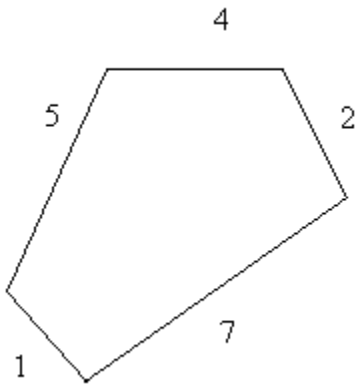
$$P = 120 \text{ yards}$$



**Practice:**

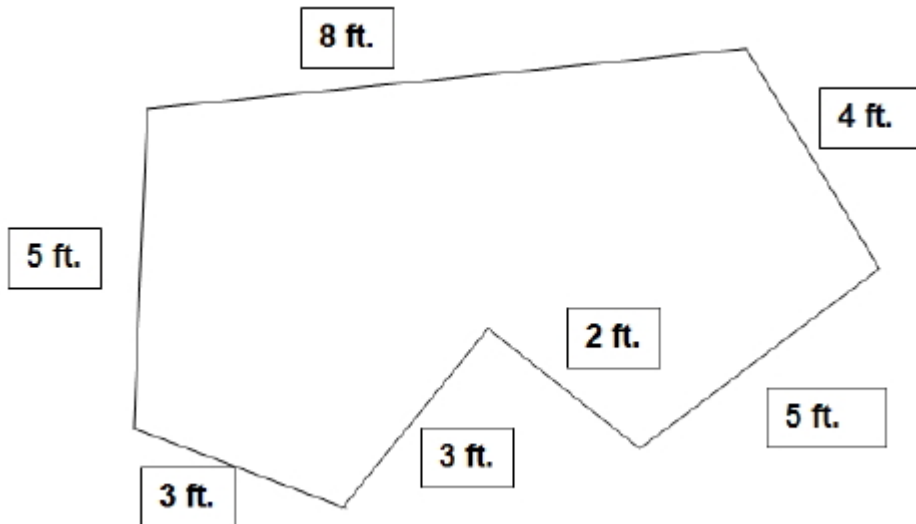
Find the Perimeters of the following shapes.

1.



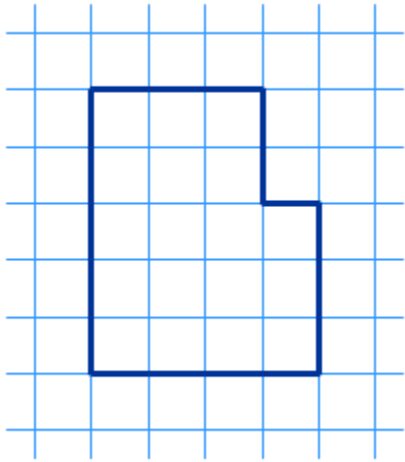
$P =$  \_\_\_\_\_

2.



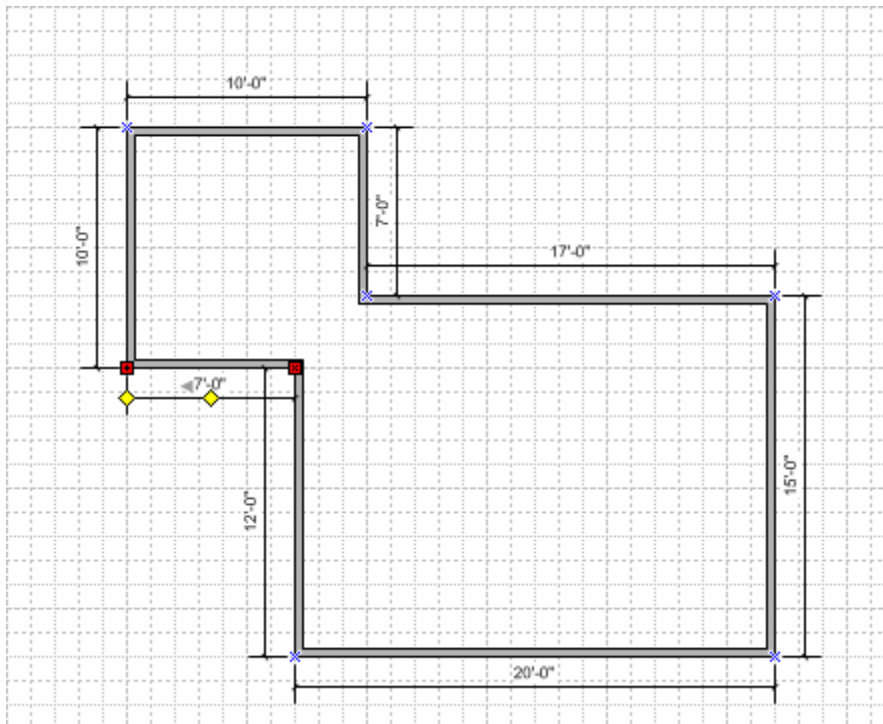
$P =$  \_\_\_\_\_

3.



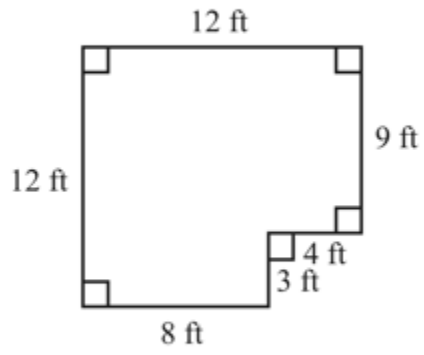
$P =$  \_\_\_\_\_

4.



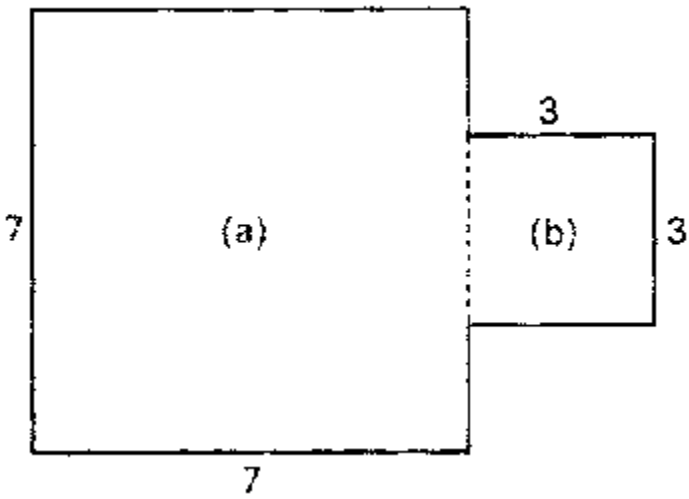
$P =$  \_\_\_\_\_

5.



$P =$  \_\_\_\_\_

6.

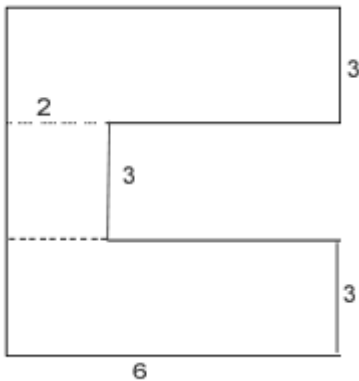


$P =$  \_\_\_\_\_

7. A rectangular football field has side lines 120 yards long. Each of the end lines is 160 feet long. What is the perimeter of the football field?

8. What is the perimeter of a square with an area of 16 square units? (Hint: Draw a picture)

9. What is the perimeter of this shape? (Hint: find the length of each side)



$P =$  \_\_\_\_\_

10. A triangle has a perimeter of 50. If 2 of its sides are equal and the third side is 5 more than the equal sides, what is the length of the third side? (Hint: Draw a picture)

$P =$  \_\_\_\_\_