

## ANSWERS

# PERIMETER OF POLYGONS

**Instructions:** Find the Missing Side. Determine the value of an unknown side in polygons with a given perimeter.

**Question:** "A heptagon has a perimeter of 70 cm. If six of its sides measure 10 cm, 12 cm, 8 cm, 7 cm, 11 cm, and 9 cm, what is the length of the missing side?"

**Answer:**

$$70 - (10 + 12 + 8 + 7 + 11 + 9) =$$

13 cm



**Question:** "This quadrilateral has a perimeter of 40 cm. The known sides are 15 cm, 10 cm, and 8 cm. What is the length of the missing side?"

**Answer:**

$$40 - (15 + 10 + 8) = 6 \text{ cm}$$



**Question:** "An octagon has a perimeter of 64 cm. If seven sides measure 8 cm, 6 cm, 5 cm, 7 cm, 6 cm, 8 cm, and 9 cm, what is the missing side?"

**Answer:**

$$64 - (8 + 6 + 5 + 7 + 6 + 8 + 9) =$$

15 cm



**Question:** "A pentagon has a perimeter of 45 cm. If four of its sides measure 12 cm, 5 cm, 10 cm, and 8 cm, what is the missing side?"

**Answer:**

$$45 - (12 + 5 + 10 + 8) = 10 \text{ cm}$$



How Did You Do? 😊 😐 😞