

## ANSWERS

# PERIMETER OF POLYGONS

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

**Question:** "A pentagon has a perimeter of 60 cm. If four of its sides measure 12 cm, 9 cm, 14 cm, and 8 cm, what is the length of the missing side?"

**Answer:**

$$60 - (12 + 9 + 14 + 8) = 17\text{cm}$$

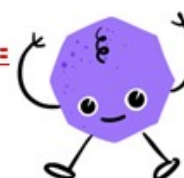


**Question:** "An octagon has a perimeter of 96 cm. If seven sides measure 8 cm, 10 cm, 11 cm, 9 cm, 7 cm, 12 cm, and 8 cm, what is the length of the missing side?"

**Answer:**

$$96 - (8 + 10 + 11 + 9 + 7 + 12 + 8) =$$

31cm



**Question:** "A quadrilateral has a perimeter of 45 cm. If three sides measure 13 cm, 12 cm, and 8 cm, what is the length of the missing side?"

**Answer:**

$$45 - (13 + 12 + 8) = 12\text{cm}$$



**Question:** "The perimeter of a heptagon is 84 cm. If six sides measure 15 cm, 10 cm, 9 cm, 11 cm, 13 cm, and 12 cm, what is the length of the missing side?"

**Answer:**

$$84 - (15 + 10 + 9 + 11 + 13 + 12) =$$

14cm



How Did You Do? 😊 😐 😞