

ANSWERS

PERIMETER OF POLYGONS

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

Question: "The perimeter of a quadrilateral is 50 cm. If three sides measure 13 cm, 14 cm, and 9 cm, what is the length of the missing side?"

Answer:

$$50 - (13 + 14 + 9) = 14\text{cm}$$



Question: "A hexagon has a perimeter of 60 cm. If the known sides are 8 cm, 7 cm, 9 cm, 6 cm, and 10 cm, what is the length of the missing side?"

Answer:

$$60 - (8 + 7 + 9 + 6 + 10) =$$

20cm



Question: "The perimeter of a pentagon is 55 cm. If the sides measure 12 cm, 10 cm, 8 cm, and 15 cm, what is the missing side?"

Answer:

$$55 - (12 + 10 + 8 + 15) =$$

10cm



Question: "An octagon has a perimeter of 80 cm. If seven sides measure 10 cm, 6 cm, 9 cm, 8 cm, 7 cm, 10 cm, and 8 cm, what is the missing side?"

Answer:

$$80 - (10 + 6 + 9 + 8 + 7 + 10 + 8) =$$

22cm



How Did You Do? 😊 😐 😞