

ANSWERS

PERIMETER OF POLYGONS

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

Question: "This pentagon has a perimeter of 40 cm. If the known sides are 8 cm, 6 cm, 5 cm, and 7 cm, what is the missing side?"

Answer:

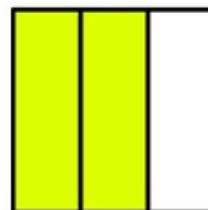
$$40 - (8 + 6 + 5 + 7) = 14\text{cm}$$



Question: "A quadrilateral has a perimeter of 32 cm. If three sides measure 8 cm, 5 cm, and 10 cm, what is the length of the missing side?"

Answer:

$$32 - (8 + 5 + 10) = 9\text{cm}$$



Question: "An irregular hexagon has a perimeter of 48 cm. If the sides measure 6 cm, 7 cm, 8 cm, 5 cm, and 10 cm, what is the missing side?"

Answer:

$$48 - (6 + 7 + 8 + 5 + 10) = 12\text{cm}$$



Question: "A hexagon has a total perimeter of 72 cm. If five of its sides measure 9 cm, 8 cm, 12 cm, 10 cm, and 11 cm, what is the length of the missing side?"

Answer:

$$72 - (9 + 8 + 12 + 10 + 11) =$$

$$22\text{cm}$$



How Did You Do? 😊 😐 😞