

CHAPTER-6 | Perimeter and Area

QUIZ
PART-04

1. If the perimeter of a rectangle is 14 cm and its breadth is 2 cm, the length is:
- A. 3 cm
B. 4 cm
C. 5 cm
D. 6 cm (C)

Explanation: Perimeter = $2 \times (\text{length} + \text{breadth})$. So, $14 = 2 \times (L + 2)$, hence $L + 2 = 7$ and $L = 5$ cm.

2. If the perimeter of a square is 20 cm, each side is:
- A. 4 cm
B. 5 cm
C. 6 cm
D. 10 cm (B)

Explanation: Perimeter of a square = $4 \times \text{side}$. So side = $20 \div 4 = 5$ cm.

3. If the perimeter of a rectangle is 12 m and its length is 3 m, the breadth is:
- A. 2 m
B. 3 m
C. 4 m
D. 5 m (B)

Explanation: $12 = 2 \times (3 + B)$, so $6 = 3 + B$ and $B = 3$ m.

4. A rectangle has sides 5 cm and 3 cm. Its perimeter is:
- A. 8 cm
B. 15 cm
C. 16 cm
D. 30 cm (C)

Explanation: Perimeter = $2 \times (5 + 3) = 2 \times 8 = 16$ cm.

5. The same wire from a 5 cm by 3 cm rectangle is bent into a square. The side of the square becomes:
- A. 2 cm
B. 3 cm
C. 4 cm
D. 5 cm (C)

Explanation: The wire length stays the same, so the square's perimeter is also 16 cm. Side = $16 \div 4 = 4$ cm.

6. Why does the square made from the wire have side 4 cm?
- A. Because $5 + 3 = 8$
B. Because $16 \div 4 = 4$
C. Because squares always have side 4
D. Because $5 - 3 = 2$ (B)

Explanation: The wire gives total perimeter 16 cm, and a square has 4 equal sides, so $16 \div 4 = 4$ cm.

7. A triangle has perimeter 55 cm. Two sides are 20 cm and 14 cm. The third side is:
- A. 19 cm
B. 20 cm
C. 21 cm
D. 22 cm (C)

Explanation: Third side = $55 - (20 + 14) = 55 - 34 = 21$ cm.

8. Which formula is used to find the missing third side of a triangle?
- A. third side = perimeter + two sides
B. third side = perimeter - sum of other two sides
C. third side = perimeter $\times 2$
D. third side = sum of all sides (B)

Explanation: Since perimeter is the sum of all three sides, the missing side is found by subtracting the known two sides.

9. Which statement is correct?
- A. Perimeter of a square = $2 \times \text{side}$
B. Perimeter of a rectangle = length + breadth
C. Perimeter of a square = $4 \times \text{side}$
D. Perimeter of a triangle = $2 \times \text{sum of sides}$ (C)

Explanation: A square has 4 equal sides, so its perimeter is $4 \times \text{side}$.

10. Which of the following is true for the rectangle in Question 1?
- A. length = breadth
B. length is greater than breadth
C. breadth is greater than length
D. both are 7 cm (B)

Explanation: The rectangle has length 5 cm and breadth 2 cm, so the length is greater.