

CHAPTER-6 | Perimeter and Area

QUIZ
PART-22

1. The area of a square of side 4 m is:

- A. 8 m^2
B. 12 m^2
C. 16 m^2
D. 20 m^2 (C)

Explanation: Area of a square = side \times side = $4 \times 4 = 16 \text{ m}^2$.

2. A rectangle has area 72 m^2 and length 9 m. Its width is:

- A. 6 m
B. 7 m
C. 8 m
D. 9 m (C)

Explanation: Width = Area \div Length = $72 \div 9 = 8 \text{ m}$.

3. A square field has area 64 m^2 . One side is:

- A. 6 m
B. 7 m
C. 8 m
D. 9 m (C)

Explanation: Side of a square = $\sqrt{64} = 8 \text{ m}$.

4. A rectangular field 50 m long and 30 m wide has perimeter:

- A. 80 m
B. 100 m
C. 160 m
D. 150 m (C)

Explanation: Perimeter = $2(l + w) = 2(50 + 30) = 160 \text{ m}$.

5. If fencing costs ₹100 per metre, the total fencing cost for 160 m is:

- A. ₹8,000
B. ₹12,000
C. ₹16,000
D. ₹20,000 (C)

Explanation: Total cost = $160 \times 100 = ₹16,000$.

6. A regular pentagon has 5 equal sides. If one side is 6 cm, its perimeter is:

- A. 24 cm
B. 30 cm
C. 36 cm
D. 42 cm (B)

Explanation: Perimeter of a regular pentagon = $5 \times$ side = $5 \times 6 = 30 \text{ cm}$.

7. A regular hexagon has 6 equal sides. If one side is 4 cm, its perimeter is:

- A. 16 cm
B. 20 cm
C. 24 cm
D. 28 cm (C)

Explanation: Perimeter of a regular hexagon = $6 \times$ side = $6 \times 4 = 24 \text{ cm}$.

8. Which formula is correct for the area of a square?

- A. $4 \times$ side
B. side \times side
C. $2(l + b)$
D. $l \times b \times h$ (B)

Explanation: The area of a square is found by multiplying the side by itself.

9. Which formula is correct for the perimeter of a regular pentagon?

- A. $4 \times$ side
B. $5 \times$ side
C. $6 \times$ side
D. side \times side (B)

Explanation: A regular pentagon has 5 equal sides, so perimeter = $5 \times$ side.

10. Which formula is correct for the perimeter of a regular hexagon?

- A. $4 \times$ side
B. $5 \times$ side
C. $6 \times$ side
D. $8 \times$ side (C)

Explanation: A regular hexagon has 6 equal sides, so perimeter = $6 \times$ side.