

CHAPTER-6 | Perimeter and Area

QUIZ
PART-09

1. The area of a square is:

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

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

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

- A. side \times side
B. $2 \times$ (length + breadth)
C. length \times breadth
D. $4 \times$ side (A)

Explanation: Since all sides of a square are equal, area = side \times side.

3. What is the area of a square whose side is 6 m?

- A. 12 m^2
B. 24 m^2
C. 36 m^2
D. 42 m^2 (C)

Explanation: Area = $6 \times 6 = 36 \text{ m}^2$.

4. What is the area of a square whose side is 8 cm?

- A. 16 cm^2
B. 32 cm^2
C. 64 cm^2
D. 64 cm (C)

Explanation: Area = $8 \times 8 = 64 \text{ cm}^2$. Area is written in square units.

5. If the area of a square is 25 m^2 , its side is:

- A. 4 m
B. 5 m
C. 6 m
D. 10 m (B)

Explanation: A square with area 25 m^2 has side 5 m, because $5 \times 5 = 25$.

6. A floor is 5 m long and 4 m wide. Its area is:

- A. 9 m^2
B. 18 m^2
C. 20 m^2
D. 25 m^2 (C)

Explanation: Area of the floor = $5 \times 4 = 20 \text{ m}^2$.

7. A square carpet of side 3 m is laid on that floor.

The carpet's area is:

- A. 6 m^2
B. 9 m^2
C. 12 m^2
D. 15 m^2 (B)

Explanation: Area of square carpet = $3 \times 3 = 9 \text{ m}^2$.

8. The area of the floor that is not carpeted is:

- A. 9 m^2
B. 11 m^2
C. 20 m^2
D. 29 m^2 (B)

Explanation: Uncovered area = floor area – carpet area = $20 - 9 = 11 \text{ m}^2$.

9. Four square flower beds each of side 4 m are in the corners of a 12 m by 10 m land. Total area of the four flower beds is:

- A. 16 m^2
B. 32 m^2
C. 48 m^2
D. 64 m^2 (D)

Explanation: One flower bed area = $4 \times 4 = 16 \text{ m}^2$, so four beds = $4 \times 16 = 64 \text{ m}^2$.

10. The remaining area of that 12 m by 10 m land is:

- A. 56 m^2
B. 64 m^2
C. 72 m^2
D. 120 m^2 (A)

Explanation: Total land area = $12 \times 10 = 120 \text{ m}^2$.

Remaining area = $120 - 64 = 56 \text{ m}^2$.