

CHAPTER-6 | Perimeter and Area

QUIZ
PART-08

1. Area means the:

- A. distance around a figure
- B. amount of region enclosed by a closed figure
- C. length of one side
- D. number of corners (B)

Explanation: Area is the amount of surface enclosed inside a closed figure.

2. The formula for the area of a rectangle is:

- A. length + breadth
- B. $2 \times (\text{length} + \text{breadth})$
- C. length \times breadth
- D. length \div breadth (C)

Explanation: Area of a rectangle is found by multiplying its length and breadth.

3. What is the area of a rectangle of length 12 cm and breadth 8 cm?

- A. 20 cm^2
- B. 40 cm^2
- C. 96 cm^2
- D. 192 cm^2 (C)

Explanation: Area = $12 \times 8 = 96 \text{ cm}^2$.

4. What is the area of a rectangle of length 7 m and breadth 5 m?

- A. 12 m^2
- B. 30 m^2
- C. 35 m^2
- D. 42 m^2 (C)

Explanation: Area = $7 \times 5 = 35 \text{ m}^2$.

5. If the width of a rectangle is 4 m and its area is 32 m^2 , then its length is:

- A. 6 m
- B. 8 m
- C. 12 m
- D. 16 m (B)

Explanation: Length = area \div width = $32 \div 4 = 8 \text{ m}$.

6. If the length of a rectangle is 6 cm and its area is 30 cm^2 , then its width is:

- A. 4 cm
- B. 5 cm
- C. 6 cm
- D. 24 cm (B)

Explanation: Width = area \div length = $30 \div 6 = 5 \text{ cm}$.

7. Find the area of a rectangle whose length and breadth are 7 m and 6 m respectively.

- A. 26 m^2
- B. 42 m^2
- C. 26 m
- D. 42 m (B)

Explanation: Area = $7 \times 6 = 42 \text{ m}^2$. Area is always written in square units.

8. Find the width of a rectangle if its length is 5 cm and area is 15 cm^2 .

- A. 20 cm^2
- B. 3 cm^2
- C. 20 cm
- D. 3 cm (D)

Explanation: Width = area \div length = $15 \div 5 = 3 \text{ cm}$.

9. Which unit is correct for area?

- A. cm
- B. m
- C. cm^2
- D. kg (C)

Explanation: Area is measured in square units, such as cm^2 or m^2 .

10. Which statement is true?

- A. Area and perimeter are the same
- B. Area of rectangle = length \times breadth
- C. Area of rectangle = $2 \times (\text{length} + \text{breadth})$
- D. Area is measured in metres only (B)

Explanation: Length \times breadth gives the area of a rectangle, while $2 \times (\text{length} + \text{breadth})$ gives perimeter.