

CHAPTER-6 | Perimeter and Area

QUIZ
PART-01

1. What is the perimeter of a closed plane figure?

- A. Space inside the figure
- B. Distance around its boundary
- C. Length of one side
- D. Sum of angles (B)

Explanation: Perimeter is the total distance covered when we move once around the boundary of a closed figure.

2. A polygon is a:

- A. curved figure
- B. closed plane figure made of line segments
- C. figure with only four sides
- D. figure with equal sides only (B)

Explanation: A polygon is defined as a closed plane figure formed by line segments.

3. The perimeter of a polygon is:

- A. product of all sides
- B. difference of all sides
- C. sum of lengths of all sides
- D. twice one side (C)

Explanation: The perimeter of any polygon is the sum of the lengths of all its sides.

4. A rectangle is a quadrilateral whose:

- A. all sides are unequal
- B. opposite sides are equal
- C. only adjacent sides are equal
- D. diagonals are unequal (B)

Explanation: A rectangle has opposite sides equal.

5. Which expression gives the perimeter of rectangle ABCD?

- A. $AB + BC$
- B. $AB \times BC$
- C. $AB + BC + CD + DA$
- D. $2 \times AB \times BC$ (C)

Explanation: Perimeter of a rectangle is the sum of all four sides.

6. The formula for the perimeter of a rectangle is:

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

Explanation: The perimeter of a rectangle is twice the sum of its length and breadth.

7. What is the perimeter of a rectangle of length 12 cm and breadth 8 cm?

- A. 20 cm
- B. 32 cm
- C. 40 cm
- D. 96 cm (C)

Explanation: Perimeter = $2 \times (12 + 8) = 2 \times 20 = 40$ cm.

8. A rectangular table cloth is 3 m long and 2 m wide. The lace needed all around it is:

- A. 5 m
- B. 6 m
- C. 10 m
- D. 12 m (C)

Explanation: Lace needed = perimeter = $2 \times (3 + 2) = 10$ m.

9. Which statement is true?

- A. Perimeter of a rectangle is length \times breadth
- B. Perimeter of a rectangle is twice the sum of length and breadth
- C. Perimeter is only the length
- D. Perimeter is the space inside the figure (B)

Explanation: The correct formula is $2 \times (\text{length} + \text{breadth})$.

10. What is the perimeter of a rectangle?

- A. Sum of lengths only
- B. Sum of widths only
- C. Sum of both length and width
- D. Twice the sum of length and width (D)

Explanation: A rectangle has two lengths and two breadths, so perimeter = $2 \times (\text{length} + \text{width})$.