

CHAPTER-8 | : Quadrilaterals

QUIZ PART-02

1. What is the sum of the interior angles of a quadrilateral?

- A. 180°
- B. 360°
- C. 90°
- D. 270° (B)

Explanation: The sum of the interior angles of any quadrilateral is 360° .

2. Which of the following is not a property of a parallelogram?

- A. Opposite sides are parallel
- B. Opposite sides are equal
- C. Diagonals are equal
- D. Opposite angles are equal (C)

Explanation: In a parallelogram, diagonals are not necessarily equal. They bisect each other but are not equal in general.

3. If opposite sides of a quadrilateral are parallel and equal, which type of quadrilateral is it?

- A. Rectangle
- B. Rhombus
- C. Parallelogram
- D. Square (C)

Explanation: If opposite sides of a quadrilateral are parallel and equal, it is a parallelogram.

4. What is true about the diagonals of a rectangle?

- A. They are perpendicular
- B. They bisect each other at right angles
- C. They are of equal length
- D. They are not equal (C)

Explanation: In a rectangle, the diagonals are equal in length.

5. What is the property of a rhombus regarding its diagonals?

- A. The diagonals are equal
- B. The diagonals bisect each other at right angles
- C. The diagonals are congruent
- D. The diagonals are parallel (B)

Explanation: In a rhombus, the diagonals bisect each other at right angles.

6. In a rectangle, if one of the angles is 90° , what can be concluded about the other three angles?

- A. All the angles are 90°
- B. The other angles are 45°
- C. The other angles are 60°
- D. The other angles are 120° (A)

Explanation: In a rectangle, all four angles are right angles, i.e. 90°

7. Which of the following is a property of a square?

- A. All angles are 60°
- B. All sides are equal, and all angles are 90°
- C. Diagonals are unequal
- D. Opposite sides are unequal (B)

Explanation: In a square, all sides are equal, and all angles are 90° .

Q8. Which of the following statements is true about a rhombus?

- A. All angles are 90°
- B. Diagonals are equal
- C. All sides are equal
- D. Opposite sides are unequal (C)

Explanation: In a rhombus, all sides are equal, but the angles are not necessarily 90° ,

9. A quadrilateral has one pair of parallel sides. What type of quadrilateral is it?

- A. Rectangle
- B. Square
- C. Trapezium
- D. Parallelogram (C)

Explanation: A trapezium has exactly one pair of parallel sides.

10. What is the property of the diagonals of a square?

- A. They are equal and bisect each other at right angles
- B. They are unequal and do not bisect each other
- C. They are equal but do not bisect each other
- D. They are perpendicular but not equal (A)

Explanation: In a square, the diagonals are equal in length and bisect each other at right angles.