

CHAPTER-8 | : Quadrilaterals

QUIZ PART-01

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 always 360° .

2. Which of the following is not a type of quadrilateral?

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

Explanation: A circle is not a quadrilateral. Quadrilaterals have four sides, whereas a circle is a continuous curve.

3. In a parallelogram, what is true about opposite sides?

- A. Opposite sides are unequal
- B. Opposite sides are equal and parallel
- C. Opposite sides are unequal and not parallel
- D. None of these (B)

Explanation: In a parallelogram, opposite sides are both equal and parallel by definition.

4. Which of the following is a property of a rectangle?

- A. All sides are equal
- B. Diagonals are equal and bisect each other
- C. All angles are 60°
- D. Opposite sides are not equal (B)

Explanation: In a rectangle, diagonals are equal in length and bisect each other.

5. What is the property of a square?

- A. All sides are equal, and all angles are 90°
- B. Only opposite sides are equal
- C. Only one angle is 90°
- D. None of the above (A)

Explanation: A square has all sides equal and all angles measuring 90° , making it both a rectangle and a rhombus.

Q6. What can be said about the diagonals of a rhombus?

- A. Diagonals are equal
- B. Diagonals bisect each other at right angles
- C. Diagonals are not equal
- D. Diagonals do not bisect each other (B)

Explanation: In a rhombus, diagonals bisect each other at right angles, and they are not necessarily equal.

7. What is the property of a kite?

- A. The diagonals are perpendicular to each other
- B. All sides are equal
- C. Opposite angles are equal
- D. None of the above (A)

Explanation: A kite has perpendicular diagonals, and one diagonal bisects the other.

8. What is true about the opposite angles in a parallelogram ?

- A. They are supplementary
- B. They are equal
- C. They are complementary
- D. They are not related (B)

Explanation: In a parallelogram, opposite angles are always equal.

Q9. What is a trapezium?

- A. A quadrilateral with two parallel sides
- B. A quadrilateral with all sides equal
- C. A quadrilateral with no parallel sides
- D. A quadrilateral with four right angles (A)

Explanation: A trapezium is a quadrilateral that has exactly one pair of parallel sides.

10. In an isosceles trapezium, what can be concluded about the non-parallel sides?

- A. They are unequal
- B. They are parallel
- C. They are equal
- D. They are perpendicular (C)

Explanation: In an isosceles trapezium, the non-parallel sides are equal in length.