

Quadrilateral, Rhombus, Rectangle, Square & Parallelogram – MCQs

Based on Class 8 Mathematics (CBSE) | Prepared by Experienced Teacher | Exam-Oriented

1. A quadrilateral has opposite sides equal and parallel. What is it called?

A) Trapezium B) Parallelogram C) Rhombus D) Kite

Answer: B) Parallelogram

2. The sum of all interior angles of any quadrilateral is —

A) 180° B) 270° C) 360° D) 540°

Answer: C) 360°

3. If one angle of a parallelogram is 70° , then its adjacent angle is —

A) 70° B) 90° C) 110° D) 130°

Answer: C) 110°

4. Which of the following quadrilaterals has all sides equal but angles not necessarily 90° ?

A) Rectangle B) Rhombus C) Square D) Parallelogram

Answer: B) Rhombus

5. The diagonals of a rectangle —

A) are equal and bisect each other B) are unequal and bisect each other C) are perpendicular D) bisect each other at right angles

Answer: A) are equal and bisect each other

6. The diagonals of a rhombus —

A) are equal B) bisect each other at right angles C) do not bisect each other D) are parallel

Answer: B) bisect each other at right angles

7. Which of the following is not always true for a parallelogram?

A) Opposite sides are equal B) Opposite angles are equal C) Diagonals are equal D) Diagonals bisect each other

Answer: C) Diagonals are equal

8. A square is a —

A) Rectangle only B) Rhombus only C) Both rectangle and rhombus D) Neither

Answer: C) Both rectangle and rhombus

9. If diagonals of a quadrilateral are equal and bisect each other, the quadrilateral is a —

A) Rhombus B) Rectangle C) Parallelogram D) Trapezium

Answer: B) Rectangle

10. The line segment joining opposite corners of a quadrilateral is called a —

A) Side B) Diagonal C) Altitude D) Median

Answer: B) Diagonal

11. In a square, each angle measures —

A) 45° B) 60° C) 90° D) 120°

Answer: C) 90°

12. A parallelogram whose diagonals are perpendicular is a —

A) Rectangle B) Rhombus C) Square D) Kite

Answer: B) Rhombus

13. Which quadrilateral has one pair of parallel sides?

A) Parallelogram B) Rectangle C) Trapezium D) Rhombus

Answer: C) Trapezium

14. If all sides of a parallelogram are equal, then it must be a —

A) Square B) Rhombus C) Rectangle D) Kite

Answer: B) Rhombus

15. The diagonals of a square —

A) are unequal B) are equal and bisect each other at right angles C) do not bisect each other D) are parallel

Answer: B) are equal and bisect each other at right angles

16. Which of these is not a property of a rectangle?

A) Opposite sides are equal B) Diagonals bisect each other C) Diagonals are perpendicular D) Each angle is 90°

Answer: C) Diagonals are perpendicular

17. A parallelogram with all angles equal is a —

A) Rhombus B) Rectangle C) Kite D) Trapezium

Answer: B) Rectangle

18. Which of these shapes has equal diagonals?

A) Parallelogram B) Rhombus C) Rectangle D) Kite

Answer: C) Rectangle

19. In a parallelogram, the sum of any two adjacent angles is —

A) 90° B) 120° C) 180° D) 360°

Answer: C) 180°

20. The diagonals of a square divide it into —

A) 2 equal triangles B) 3 equal triangles C) 4 congruent right-angled triangles D) 4 unequal triangles

Answer: C) 4 congruent right-angled triangles

21. The opposite angles of a rhombus are —

A) Equal B) Supplementary C) Right D) Unequal

Answer: A) Equal

22. The diagonals of a rhombus divide it into —

A) 4 congruent triangles B) 2 rectangles C) 2 isosceles triangles D) 2 unequal triangles

Answer: A) 4 congruent triangles

23. Which of the following is true for every parallelogram?

A) Opposite angles are equal B) Diagonals are equal C) All sides are equal D) All angles are 90°

Answer: A) Opposite angles are equal

24. If one diagonal of a quadrilateral bisects the other, the figure may be a —

A) Parallelogram B) Rectangle C) Rhombus D) All of these

Answer: D) All of these

25. A square has all properties of —

A) Only rhombus B) Only rectangle C) Both rhombus and rectangle D) Neither

Answer: C) Both rhombus and rectangle

26. The diagonals of a parallelogram divide it into —

A) Two congruent triangles B) Four congruent triangles C) Two unequal triangles D) Four unequal triangles

Answer: A) Two congruent triangles

27. If one diagonal of a parallelogram bisects the other at right angle, it is a —

A) Square or Rhombus B) Rectangle C) Trapezium D) Kite

Answer: A) Square or Rhombus

28. In a rectangle, if length = 8 cm and diagonal = 10 cm, then breadth = ?

A) 4 cm B) 6 cm C) 8 cm D) 10 cm

Answer: B) 6 cm

29. Which of the following quadrilaterals has all sides equal and all angles equal?

A) Rectangle B) Rhombus C) Square D) Parallelogram

Answer: C) Square

30. If the diagonals of a quadrilateral are perpendicular and equal, then it is a —

A) Rhombus B) Rectangle C) Square D) Trapezium

Answer: C) Square