

Quadrilaterals

Chapter 16: Quadrilaterals · Topic 1

Key Concept

A quadrilateral has four sides, four angles, and the sum of its interior angles always equals 360° .

A square has four equal sides and four right angles, while a rectangle has opposite sides equal and four right angles.

A parallelogram has opposite sides equal and parallel, while a rhombus has all sides equal but angles that aren't necessarily 90° .

A trapezium has only one pair of parallel sides, distinguishing it from other quadrilaterals with two pairs of parallel sides.

Quick Revision Notes

- Quadrilateral: 4 sides, 4 angles.
- Sum of interior angles = 360° .
- Square: 4 equal sides, 4 right angles.
- Rectangle: opposite sides equal, 4 right angles.
- Parallelogram: opposite sides equal, parallel.
- Rhombus: all sides equal, angles vary.
- Trapezium: only one pair of parallel sides.
- Each shape has distinct properties.

Practice Questions

- 1 Draw a square, rectangle, and parallelogram.
- 2 Draw a rhombus and trapezium.
- 3 Verify that a quadrilateral's angles sum to 360° .
- 4 Find quadrilaterals in objects around you.
- 5 Compare the properties of a square and rhombus.
- 6 Classify a given quadrilateral.