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2D Shapes

- A two dimensional (2D) shapes can be defined as a flat figure or a shape that has two dimensions - length and width.
- Two dimensional or 2D shapes do not have any Thickness.

Examples of 2D Geometric Shapes

A circle , triangle, square, rectangle , and pentagon are all

examples of two – dimensional Shapes





Definition

- A triangle is a type of polygon, which has three sides, and the two sides are joined end to end is called the vertex of the triangle.
- An angle is formed between two sides.
- This is one of the important parts of geometry.
- A triangle has different types based on its angles and sides.
 - Shapes of Triangle
 - Angle of Triangle







PROPERTIES OF A RECTANGLE

Rectangle has four sides.

- Two opposite sides are equal.
- Rectangle has four corners.
- Rectangle has two diagonals.
- Two diagonals are equal.





Definition

- A square is a two-dimensional closed shape with 4 equal sides and 4 vertices.
- Its opposite sides are parallel to each other.

Examples :







PROPERTIES OF A SQUARE

Square has four sides.

- All the four sides are equal.
- Square has four corners.
- Square has two diagonals.
- The two diagonals are equal.







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PROPERTIES OF CIRCLE

- Circle is a closed curve
- Circle has no sides.
- Circle has no corners.
- Circle has a Centre point.

Quadrilaterals

A quadrilateral is a polygon having four sides, four angles, and

four vertices.

Examples :



PROPERTIES OF QUADRILATERALS

- They have four vertices.
- They have four sides.
- The sum of all interior angles is 360°.
- They have two diagonals.

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Types of the Quadrilaterals

Name of the Quadrilaterals	Picture of the Quadrilaterals	Properties of the Quadrilaterals
Parallelogram		Opposite sides are parallel Opposite sides are equal Opposite angles are equal
Square		All sides are equal All angles are equal and measure 90°
Rectangle		Opposite sides are parallel Opposite sides are equal All angles are equal and measure 90°
Rhombus		All sides are equal Opposite angles are equal
Trapezoid		Opposite sides are parallel Adjacent angles add up to 180°
Kite		Adjacent sides are equal One pair of opposite angles are equal

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