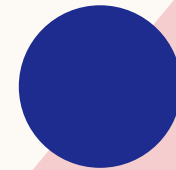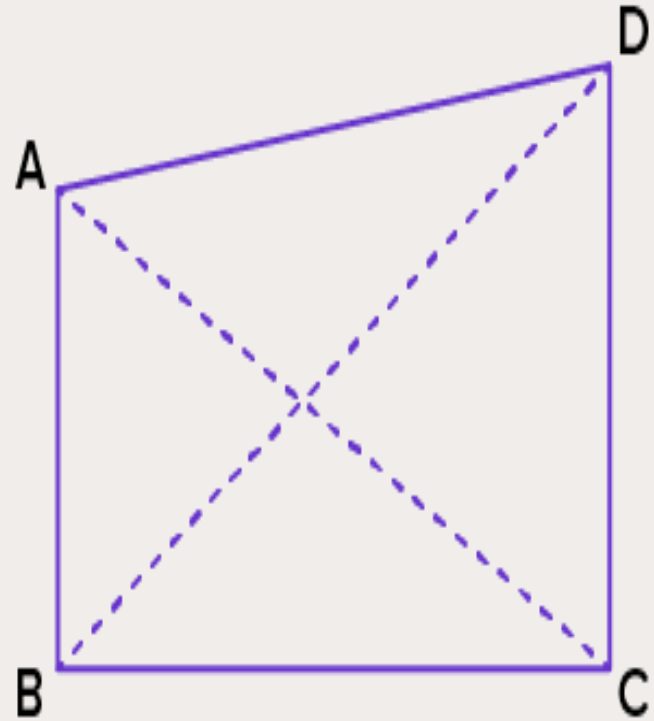# QUADRILATERALS

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QUADRILATERALS

A quadrilateral is a <u>polygon</u> having four sides, four angles, and four vertices. The word 'quadrilateral' is derived from the Latin words 'quadri,' which means four, and 'latus', which means side.

EXAMPLE OF QUADRILATERALS

PROPERTIES OF QUADRILATERALS

Some properties are common to all quadrilaterals. These properties are:

- They have four sides.
- They have four vertices.
- The sum of all interior angles is 360°.
- They have two diagonals.
- A quadrilateral can be regular or irregular. A regular quadrilateral must have 4 equal sides, and 4 equal angles, and its diagonals must bisect each other. Square is the only quadrilateral that satisfies all these conditions.

TYPES OF QUADRILATERALS

Name of the Quadrilateral:	Picture of Quadrilateral:	Properties of the Quadrilateral:
Parallelogram		Opposite sides are parallel. Opposites sides are equal. Opposite angles are equal.
Square		All sides are equal. All angles are equal and measure 90°.
Rectangle		Opposite sides are parallel. Opposites 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.

THANK YOU!!!