

Quadrilaterals

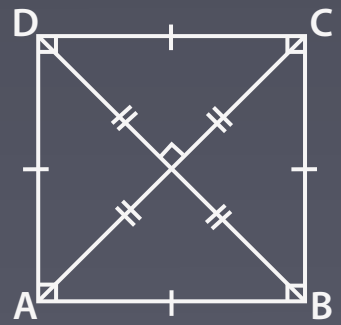
A Polygon with 4 sides is called as quadrilateral.

Sum of all interior angles of quadrilateral = $(4-2) \times 180^\circ = 360^\circ$

Types Of Quadrilaterals

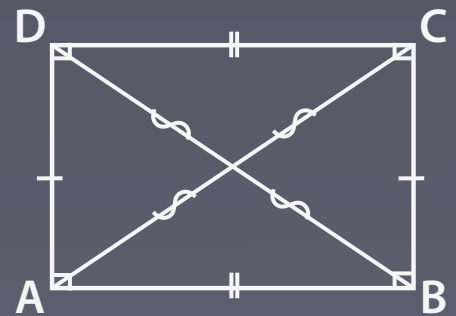
1 Square

- All sides are equal.
- All angles are equal to 90° .
- Diagonals are equal.
- Diagonals are perpendicular bisectors of each other.



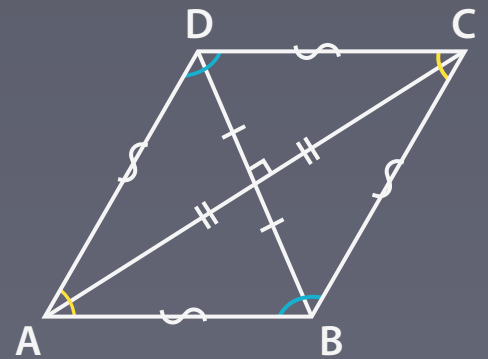
2 Rectangle

- Opposite sides are equal.
- All angles are equal to 90° .
- Diagonals are of equal length.
- Diagonals are bisectors of each other.



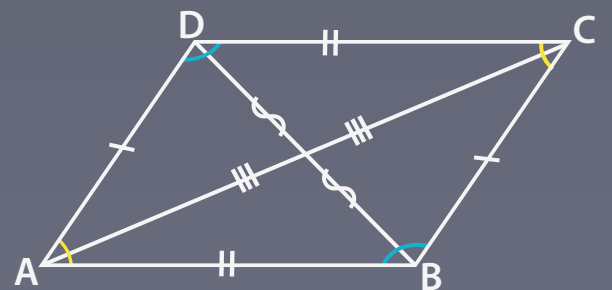
3 Rhombus

- All sides are equal.
- Opposite angles are equal.
- Adjacent angles are supplementary.
- Diagonals are perpendicular bisectors of each other.



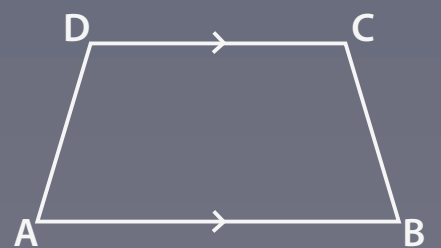
4 Parallelogram

- Opposite sides are equal and parallel.
- Opposite angles are equal.
- Adjacent angles are supplementary.
- Diagonals bisect each other.



5 Trapezium

- One pair of opposite sides is parallel.
- Sum of adjacent angles on non-parallel sides of trapezium is 180° .



6 Kite

- Pair of adjacent sides are equal.
- One pair of opposite angles is equal.
- Diagonals are perpendicular to each other.
- The longer diagonal bisects shorter diagonal.

