SHARP
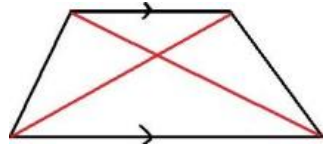
Quadrilaterals and Their Properties
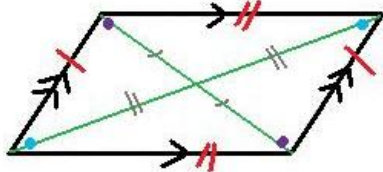
Quadrilaterals have 4 rigid sides.

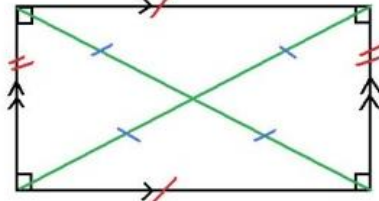### Trapezium

- One pair of opposite sides parallel

Kite

- 2 pairs adjacent sides equal
- 1 pair opposite angles equal (angles between unequal sides)
- The diagonal between equal sides bisects the other diagonal
- The diagonal between equal sides bisects the interior angles
- The diagonals intersect at 90°
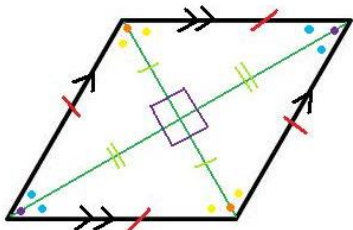
Parallelogram

- Both pairs opposite sides equal in length
- Both pairs opposite angles equal
- Both diagonals bisect each other
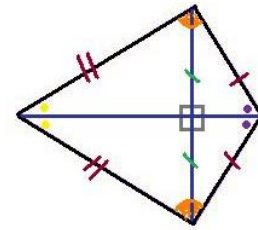- Both pairs of opposite sides parallel

Rectangle

- All the properties of a parallelogram +
- All 4 angles equal to 90°
- Diagonals equal in length

Square

- All the properties of a parallelogram +
- All 4 angles equal to 90°
- Diagonals equal in length
- Diagonals bisect each other at 90°
- Diagonals bisect both pairs of interior opposite angles (i.e. all 45°)
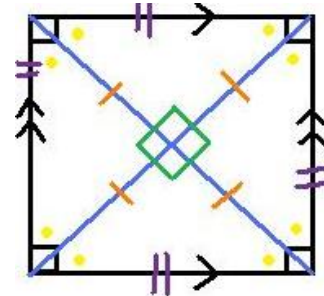- All 4 sides equal

Rhombus

- All the properties of a parallelogram +
- All 4 sides equal
- Diagonals bisect each other at 90°
- Diagonals bisect both pairs of opposite angles