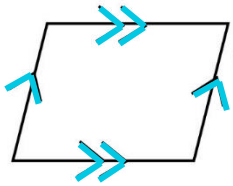
QUADRILATERAL FLOWCHART



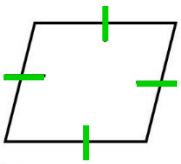
PARALLELOGRAM

Definition: *quadrilateral with* Opposite sides //

Symmetry: 180° Rotational Symmetry (about the center)
(Intersection of diagonals)

Properties:

- Opposite sides ≅
- Opposite angles ≅
- Diagonals bisect each other



RHOMBUS

Definition: *quadrilateral with* all sides congruent
(Opposite sides ≅)

Symmetry:
180° Rotational Symmetry (about the center)
TWO lines of symmetry → Diagonals

Properties:

- Opposite sides //
- Opposite angles ≅
- Diagonals bisect each other
- Diagonals are ⊥
- Diagonals bisect interior angles

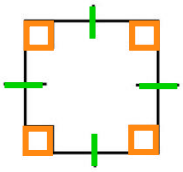
RECTANGLE

Definition: *quadrilateral with* 4 right angles
(Opposite angles ≅)

Symmetry:
180° Rotational Symmetry (about the center)
TWO lines of symmetry → through midpoints of opposite sides

Properties:

- Opposite sides //
- Opposite sides ≅
- Diagonals bisect each other
- Diagonals ≅



SQUARE

Definition: *quadrilateral with* all sides congruent *and* 4 right angles
(Opposite sides ≅) (Opposite angles ≅)

Symmetry: 90°, 180°, 270° Rotational Symmetry (about the center)
FOUR lines of symmetry → 2 Diagonals
2 through midpoints of opposite sides

Properties:

- Opposite sides //
- Diagonals bisect each other
- Diagonals are ⊥
- Diagonals bisect interior angles
- Diagonals ≅