Quadrilateral Flow Chart

**Polygon**
- closed figure with all sides composed of line segments
- four-sided polygon
- sum of interior angles = 360°

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**Parallelogram**
- opposite sides are ll (parallel)
- opposite sides are ≅ (congruent)
- opposite angles are ≅
- consecutive angles = 180°
- diagonals bisect each other
- one pair of sides are ≅ and ll
- each diagonal divides the quadrilateral into 2 ≅ triangles

**Kite**
- exactly two distinct pairs of adjacent ≅ sides
- diagonals are ⊥
- one diagonal divides the quadrilateral into 2 ≅ triangles

**Trapezoid**
- exactly 1 pair of ll sides

**Isosceles Trapezoid**
- each pair of base angles are ≅
- diagonals are ≅
- one pair of ≅ sides, the legs (not the parallel sides which are called the bases)

**Rectangle**
- all angles are right angles
- diagonals are ≅

**Rhombus**
- all sides are ≅
- diagonals are ⊥ (perpendicular)
- diagonals bisect opposite angles

**Square**
- all angles are right angles
- diagonals are ≅
- all sides are ≅
- diagonals are ⊥
- diagonals bisect opposite angles