Quadrilateral
(BBOPEBT(1)S
Parallelograms


- Opposite sides parallel
- Opposite sides congruent.
- Opposite angles congruent.
- Consecutive angles supplementary.
- Diagonals bisect each other.

Rhombi


- Four congruent sides.
- Diagonals are perpendicular.
- Diagonals bisect opposite angles.

Rectangles


- Four right angles.
- Diagonals are congruent.

Squares
Squares have ALL the properties of
 parallelograms, rectangles, and rhombi!

## Interior $\frac{\Delta}{4}$ Exterior Angles of Polygons

| Sum of Interior Angles of a Polygon | $S=(n-2) * \mathbf{1 8 0}$ |
| :---: | :---: |
| Each Interior Angles of a Regular Polygon | $\frac{(n-2) * 180}{n}$ |
| Sum of Exterior Angles of a Polygon | $\mathbf{3 6 0}$ |
| Each Exterior Angles of a Regular Polygon | $\frac{\mathbf{3 6 0}}{n}$ |

## Trapezoids

- Only ONE pair of opposite sides parallel (called bases).
- Consecutive angles are supplementary.


## Midsegment of a Trapezold:

A midsegment of a trapezoid connects the midpoints of the legs. This segment is equal to the average of the two bases.

## Isosceles <br> Trapezoids



- Non-parallel sides (legs) are congruent.
- Diagonals are congruent.
- Base angles are congruent.
- Opposite angles are supplementary.

