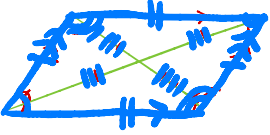


What is a quadrilateral?

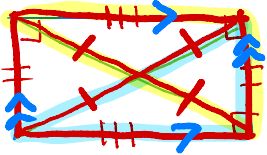
4 sides

Parallelogram



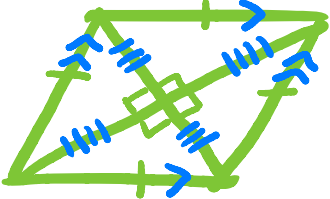
- Opposite sides are  $\cong$  and  $\parallel$
- Opposite angles are  $\cong$
- Consecutive angles are supplementary
- Diagonals bisect each other

Rectangle



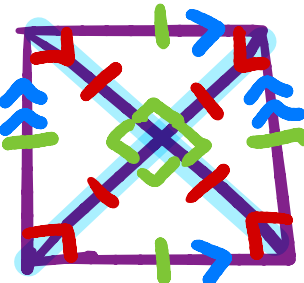
- Opposite sides are  $\cong$  and  $\parallel$
- Every angle  $\cong$  (Every  $\angle$  measures  $90^\circ$ )
- Consecutive angles are supplementary
- Diagonals bisect each other and  $\cong$

Rhombus



- Opposite sides are  $\cong$  and  $\parallel$
- All sides are  $\cong$
- Opposite angles are  $\cong$
- Consecutive angles are supplementary
- Diagonals bisect each other and angles,  $\perp$

Square



- Opposite sides are  $\cong$  and  $\parallel$
- All sides are  $\cong$  (since a rhombus)
- All angles are  $\cong$  (since a rectangle)  $90^\circ$
- Consecutive angles are supplementary
- Diagonals bisect each other,  $\cong$ ,  $\perp$

Trapezoid:



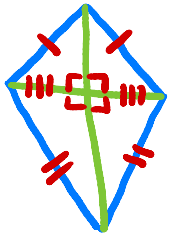
- One pair of || sides.

Isosceles Trapezoid:



- One pair of || sides.
- Sides that aren't || are ≅.
- Angles coming from parallel sides are ≅.
- Consecutive angles are supplementary.
- Diagonals are ≅.

Kite:



- Two pairs of ≅, consecutive sides.
- Where the pairs meet, angles are ≅.
- Diagonals are ⊥.
- One diagonal bisects the other.
- The other diagonal bisects opposite angles.

Graphic Organizer:

Quadrilaterals shown by sides and diagonals

