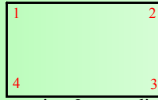


7.2 - Properties of Parallelograms



Diagonal = Segment connecting 2 non-adjacent vertices

Opposite Angles = Angles across from each other in a quadrilateral. They do not share any common sides.



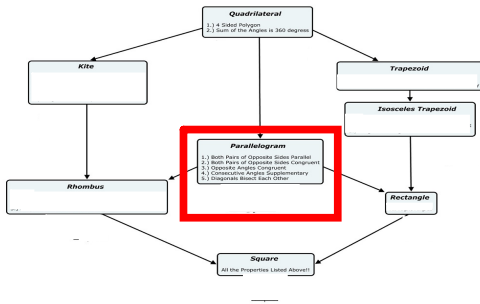
Consecutive Angles = Angles next to each other in a quadrilateral. They share one common side.



Different types of 4-sided polygons

1. Quadrilateral
2. Kite
3. Trapezoid
4. Isosceles Trapezoid
-
5. Parallelogram
6. Rhombus
7. Rectangle
8. Square

Properties of Quadrilaterals

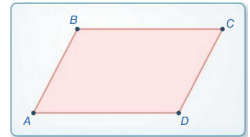


Parallelogram Properties Exploration

- Using a ruler, measure the lengths of all 4 sides.
- Using a protractor, measure all 4 angles.
- Draw the 2 diagonals, labelling the point of intersection as E. Now use a ruler to measure the distance from E to each of the 4 vertices.

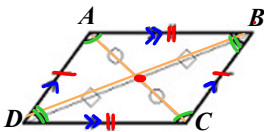
Questions to discuss in your groups:

- 1.) What did you observe about the sides?
- 2.) What did you observe about the angles?
- 3.) What did you observe about the diagonals?



Parallelogram

- 1.) Both Pairs of Opposite Sides Parallel
 - 2.) Both Pairs of Opposite Sides Congruent
 - 3.) Opposite Angles Congruent
 - 4.) Consecutive Angles Supplementary
 - 5.) Diagonals Bisect Each Other
-) SIDES
) ANGLES
) DIAGONALS



Homework

7.2 p.372 [#4,6,8,9-20](#) (Assigned Tues)
[#28-30,32,34,40,42,45](#) (Assigned Wed)