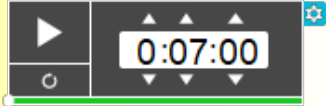


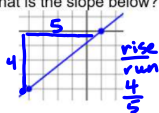


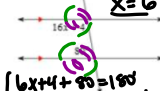
Wednesday 2/12/2020

1. Put your phones/earbuds away
2. Check your HW answers on board
3. Complete Wednesday Warm-Up 
4. Notes Part 1, Disc. Activity
5. Finish Notes, Practice, TOTD

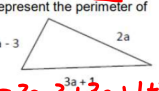
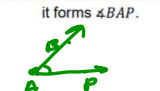
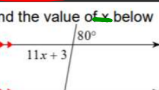
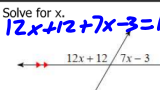
Jul 31-9:37 PM

Name: _____ Date: _____ Block: _____ Warm-Up Week #6

Tuesday

<p>Simplifying the following expression: $-7(3c - 2f + 4) + 6c - 2$</p> <p>$-21c + 14f - 28 + 6c - 2$ $-15c + 14f - 30$</p>	<p>What is the slope below?</p>  <p>rise 4 run 5</p>	<p>When the point $(-3, 2)$ is reflected across the y-axis, what is the resulting image?</p> <p>$(3, 2)$</p>
<p>Identify the relationship between the angles.</p>  <p>A.E.</p>	<p>Find the measure of the missing angle.</p>  <p>60 x</p>	<p>Solve for the value of x.</p>  <p>16x 80 x = 6</p> <p>$16x + 80 = 180$ $16x = 100$ $\frac{16x}{16} = \frac{100}{16}$</p>

Wednesday

<p>A reflection (or flip) is a transformation across a line</p> <p>A translation is a transformation in which all the points of a figure move the same distance in the same direction</p> <p>A rotation is a transformation around a point</p>	<p>Write an expression to represent the perimeter of</p>  <p>$P = 2a - 3 + 3a + 1 + 2a$ $P = 7a - 2$</p>	<p>Draw \overline{AB} and \overline{AP} such that it forms $\triangle BAP$.</p> 
	<p>Find the value of x below</p>  <p>11x + 3 80</p> <p>$80 = 11x + 3$ $77 = 11x$ $\frac{77}{11} = \frac{11x}{11}$ $x = 7$</p>	<p>Solve for x.</p> <p>$12x + 12 + 7x - 3 = 180$</p>  <p>12x + 12 7x - 3</p> <p>$19x + 9 = 180$ $19x = 171$ $\frac{19x}{19} = \frac{171}{19}$ $x = 9$</p>

Discovery, Part 1



1. Draw any 4-sided shape on you paper.
2. Draw a LARGE angle mark at each angle.
3. Tear (or cut) the large angles off the corners.
4. Organize the angles in a way that the straight sides are touching each other, with no overlap.
5. See if you can determine what the sum of the angles are.



Aug 6-6:36 PM

What am I learning today?

Learning Objective 2A.6

How to explain and use the different characteristics and properties of all types of parallelograms

Jul 31-6:18 PM

What will I do to show that I have learned it?

I can...Use the specific properties of parallelograms, rhombi, rectangles, and squares

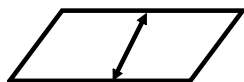
Jul 31-6:18 PM

Quadrilateral - A 4-sided polygon

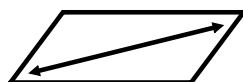
Vertex (Vertices) - The point that connects 2 sides

Adjacent side - Two sides that share a common **VERTEX**

Opposite side - The side opposite a specified **SIDE**



Opposite angle - The angle opposite a specified **ANGLE**

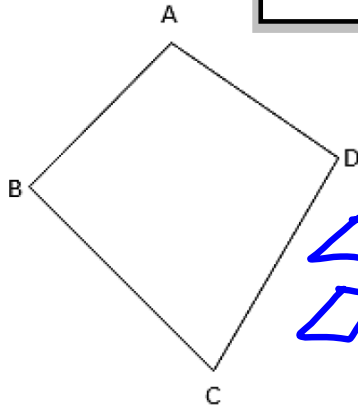


Aug 13-1:16 PM

****Name** a quadrilateral by using a quadrilateral symbol (\square) and each vertex's letter AROUND the quadrilateral.**

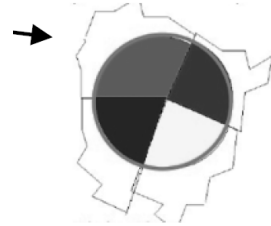
Quadrilateral Sum Theorem

$$4 \text{ Interior Angles} = 360^\circ$$

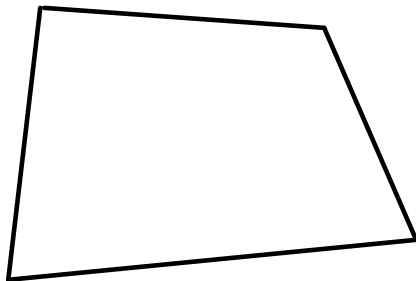


Potential Names:

\square ABCD \square DABC
 \square BCDA



Aug 17-7:37 AM

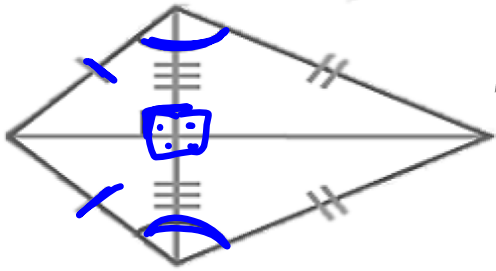


Characteristics:

- 4 sides

Quadrilateral

Aug 17-7:37 AM

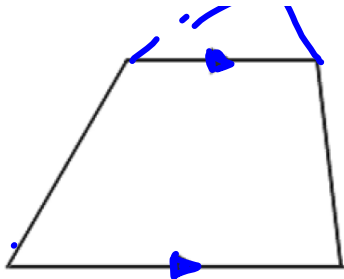


Kite

Characteristics:

- Adjacent sides are **CONGRUENT**
- 1 pair of opposite angles are **CONGRUENT**
- Diagonals are **PERPENDICULAR**

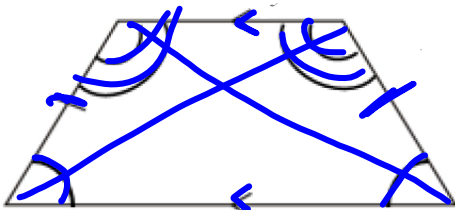
Feb 4-3:00 PM



Trapezoid

Characteristics:

- 1 pair of opposite sides are **PARALLEL**



Isosceles

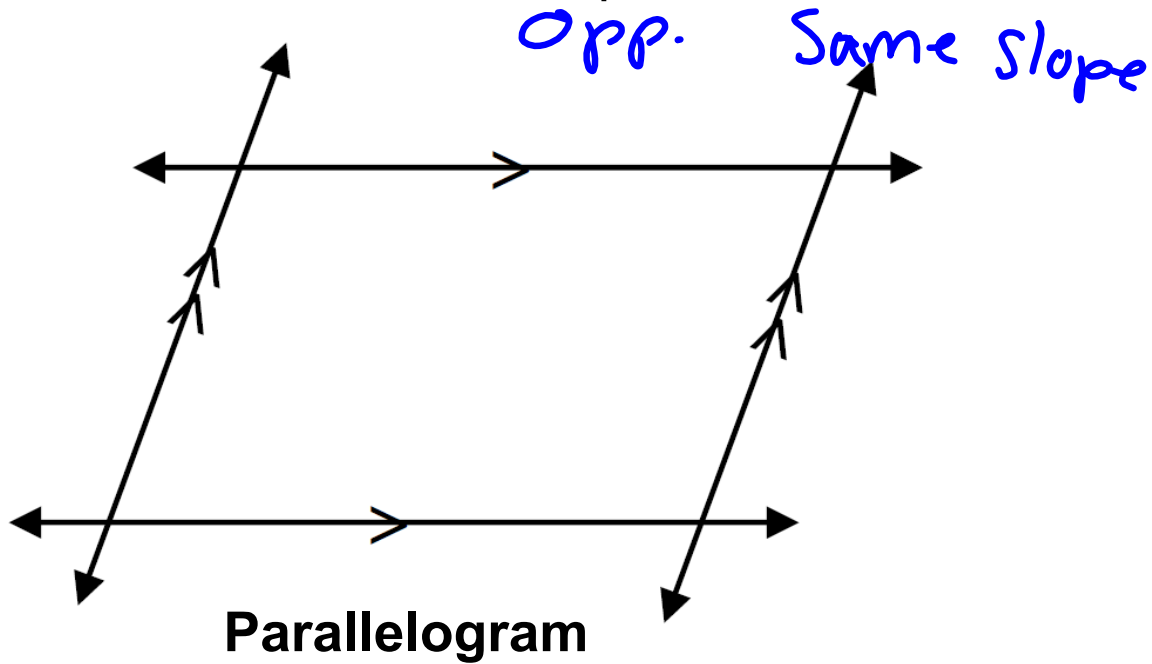
Trapezoid

Additional Characteristics:

- 1 pair of opposite sides are **CONGRUENT**
- Diagonals are **CONGRUENT**
- 2 pairs of **CONGRUENT** angles

Feb 4-3:02 PM

What do we know about parallel lines?



Feb 4-3:07 PM

Discovery, Part 2

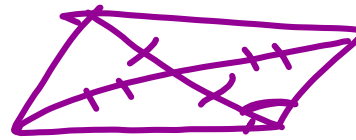
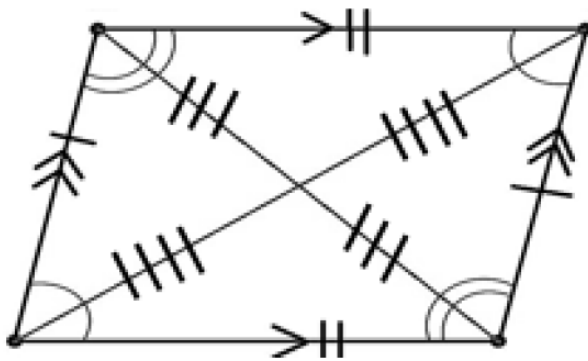


1. Using the laptops, go to the following link:

<https://www.geogebra.org/m/sf5MXdUt>

2. Explore with the parallelogram to determine characteristics of the different types of parallelograms. Fill in the notes accordingly.

Aug 6-6:36 PM

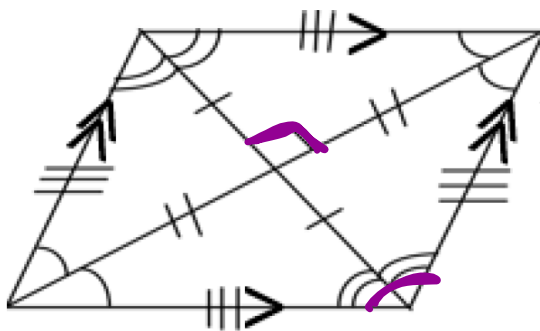


Parallelogram

Characteristics:

- Opposite sides are **PARALLEL AND CONGRUENT**
- Opposite angles are **CONGRUENT**
- Consecutive angles are **SUPPLEMENTARY** *add to = 180°* *→ Same-Side*
- Diagonals **BISECT** each other

Feb 4-3:09 PM

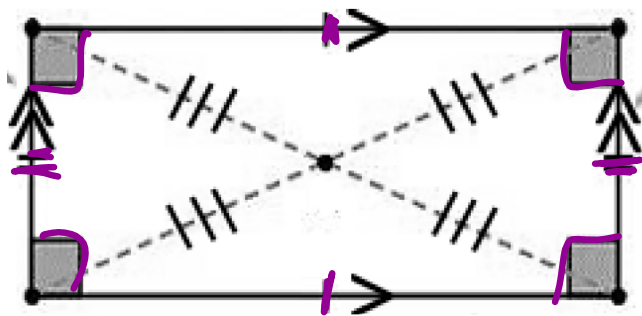


Rhombus

Additional Characteristics:

- ALL sides are **CONGRUENT**
- Diagonals...
 - > Are **PERPENDICULAR** *makes 90° angles*
 - > **BISECT OPPOSITE ANGLES**

Aug 17-7:38 AM

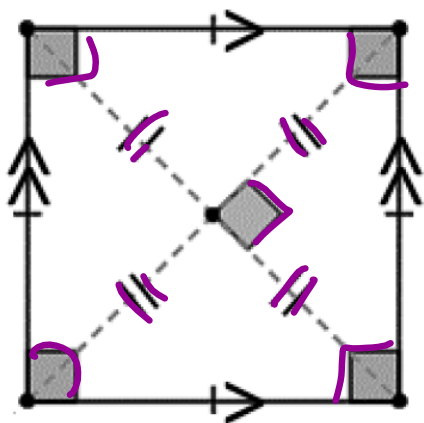


Rectangle

Additional Characteristics:

- ALL corner angles are 90°
- Diagonals are **CONGRUENT**

Feb 4-3:13 PM



Square

ALL the characteristics of parallelograms, rhombi, and rectangles!

Feb 4-3:15 PM

Label each statement as ALWAYS, SOMETIMES, or NEVER true.

1. A square is a rectangle.

Always

2. A rectangle is a square.

Sometimes

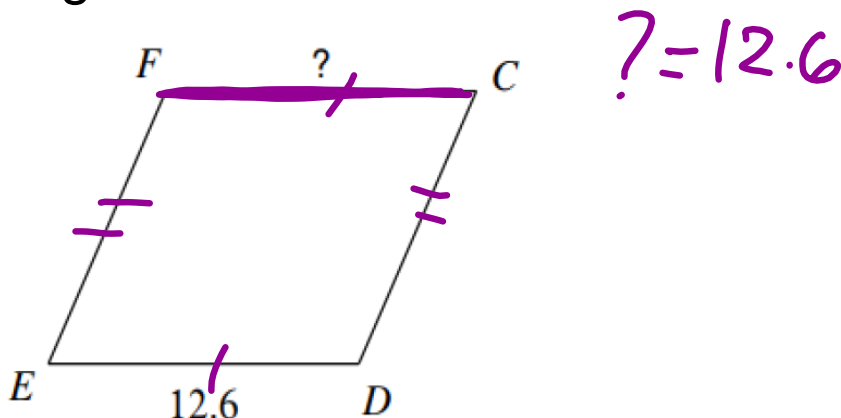
3. A parallelogram have opposite sides that are not congruent.

Never

4. A trapezoid has one pair of opposite sides that are parallel. *Always*

Aug 17-7:38 AM

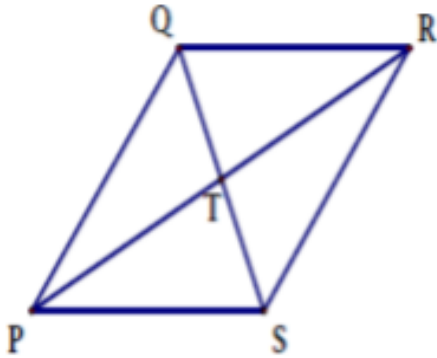
5. \square CDEF is a parallelogram. What is the length of FC?



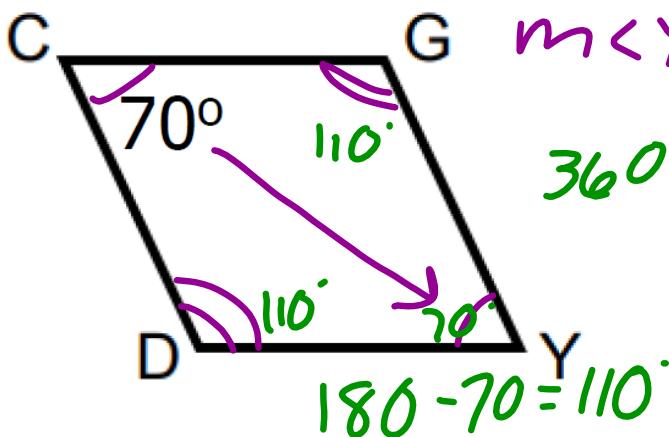
Aug 17-7:39 AM

6. $\square RSPQ$ is a rhombus.

$$m\angle PRS = 35^\circ \text{ and } m\angle PRQ = (3x + 5)^\circ$$



7. $\square CDYG$ is a parallelogram. Find the rest of the angles.



$$m\angle C = 70^\circ$$

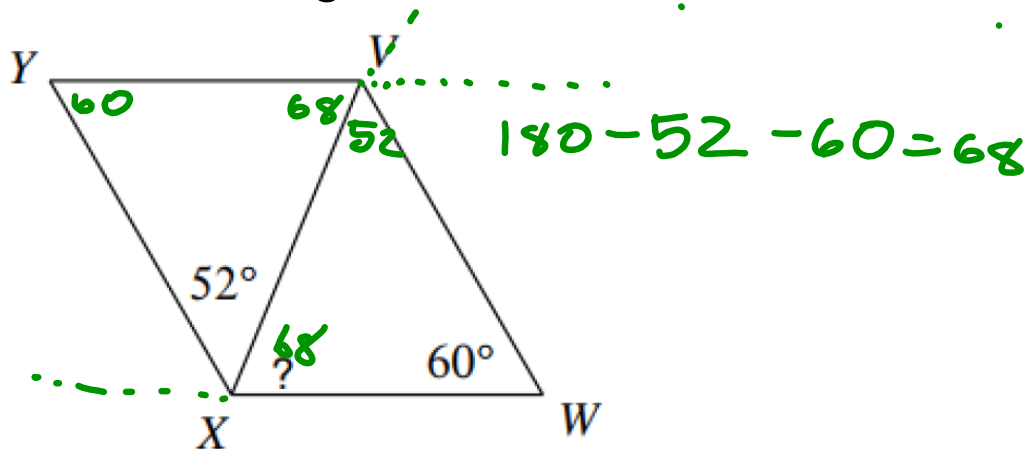
$$m\angle Y = 70^\circ$$

$$360 - 70 - 70 = 220$$

$$\frac{220}{2} = 110$$

$$180 - 70 = 110$$

8. $\square VWXY$ is a parallelogram. What are the rest of the angle measures?

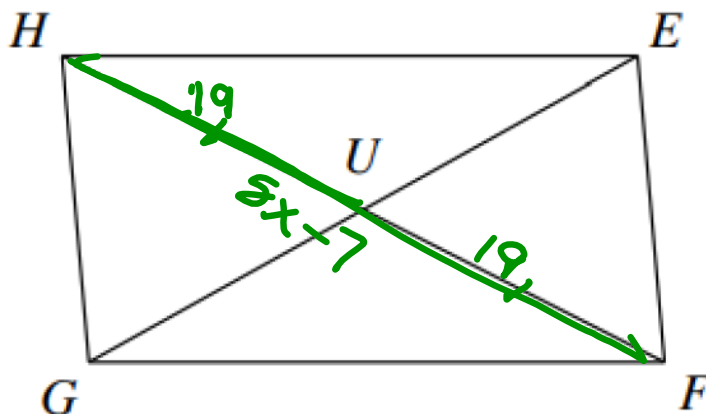


Feb 4-3:22 PM

9. $\square EFGH$ is a parallelogram. Solve for x .

$UH = 19$

$FH = 5x - 7$



$$5x - 7 = 19 + 19$$

$$5x - 7 = 38$$

$$+7 \quad +7$$

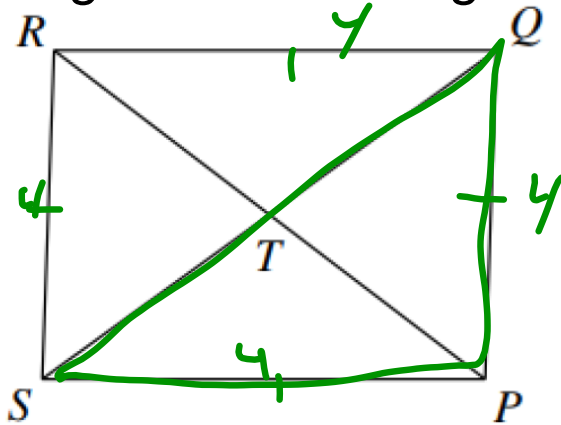
$$5x = 45$$

$$\frac{5x}{5} = \frac{45}{5}$$

$$x = 9$$

Feb 4-3:23 PM

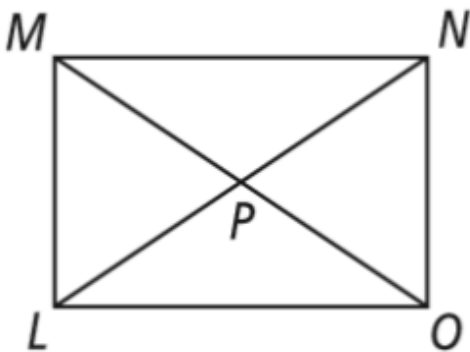
10. $\square RQPS$ is a square. If $SP = 4$, what is the length of the diagonal?



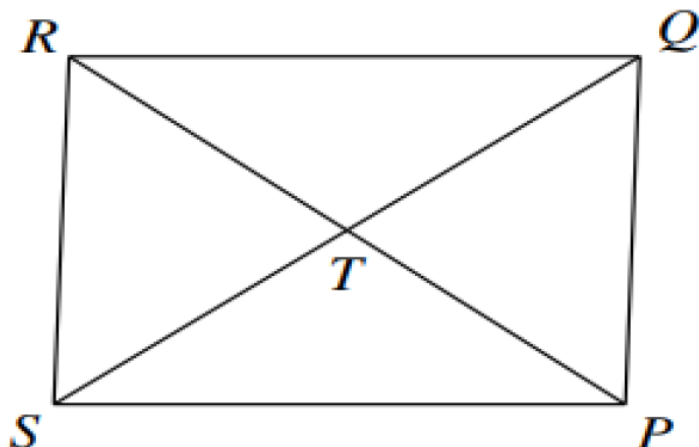
$$\begin{aligned} 4^2 + 4^2 &= c^2 \\ 16 + 16 &= c^2 \\ \sqrt{32} &= \sqrt{c^2} \\ c &= 4\sqrt{2} \end{aligned}$$

Feb 4-3:22 PM

11. $\square LMNO$ is a rectangle.
 $MO = 2x - 4$ and $LN = 3x - 10$.
 Solve for MO .



12. \square QRSP is a rectangle. If $RQ = 8$, $TQ = 6$, what is the length of RS ?

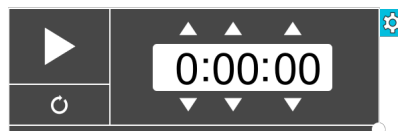


Feb 4-3:24 PM

Classwork:

Complete the classwork using properties of parallelograms.

HW: Finish the classwork.



TOTD: Before you leave, on the back of your name card, rank (0-3) how you feel about today's material (0=still have no clue, 3=I could teach it). -

Add any comments or questions you might have about the material

Jul 31-9:12 PM

