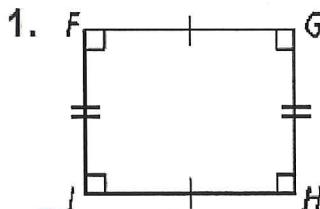


Name: Key

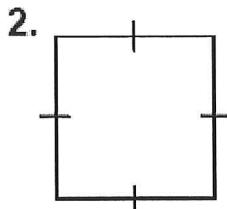
Hour: _____

Quadrilaterals and Special Parallelograms HW

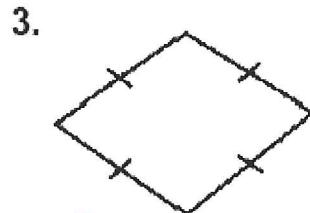
Classifying: Classify all that apply (quadrilateral, parallelogram, rhombus, rectangle, square)



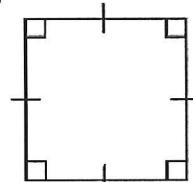
Quad
Para
Rectangle



Quad
Para
Rhombus



Quad
Para
Rhombus

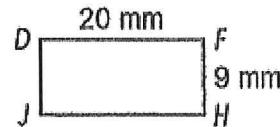


Quad
Para
Rhombus
Square

Practice

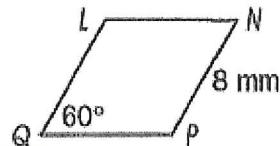
$\square DFHJ$ is a rectangle. Find the length of each side and the measure of each angle.

1. $\overline{JH} = 20\text{ mm}$ 2. $\overline{DJ} 9\text{ mm}$ 3. $\angle H = 90^\circ$
 Op. sides are \cong Op. sides are \cong def of a
 \cong \cong Rectangle



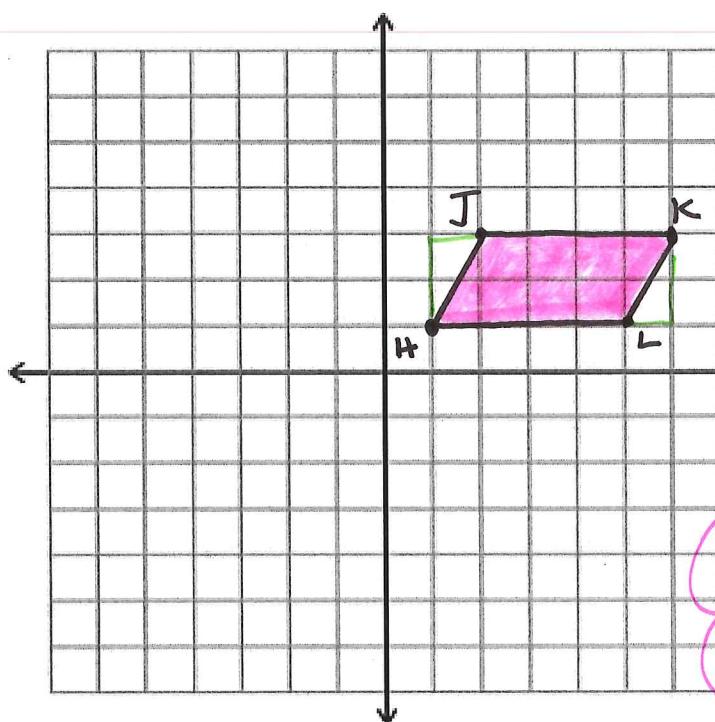
$\square LNPQ$ is a rhombus. Find the length of each side and the measure of each angle.

4. $\overline{LN} = 8\text{ mm}$ 5. $\overline{QL} = 8\text{ mm}$ 6. $\overline{QP} = 8\text{ mm}$
 def of Rhombus def of Rhombus def of Rhombus
 7. $\angle N = 60^\circ$ 8. $\angle L = 120^\circ$ 9. $\angle P = 120^\circ$ con.
 op. \angle s are \cong con. int \angle s int \angle s are
 \cong are suppl. suppl.



Determine if the figures are parallelograms, by definition.

10. $H(1, 1), J(2, 3), K(6, 3), L(5, 1)$



$$\text{Slope } JK = 0$$

$$\text{Slope } HL = 0$$

$$JK \parallel HL$$

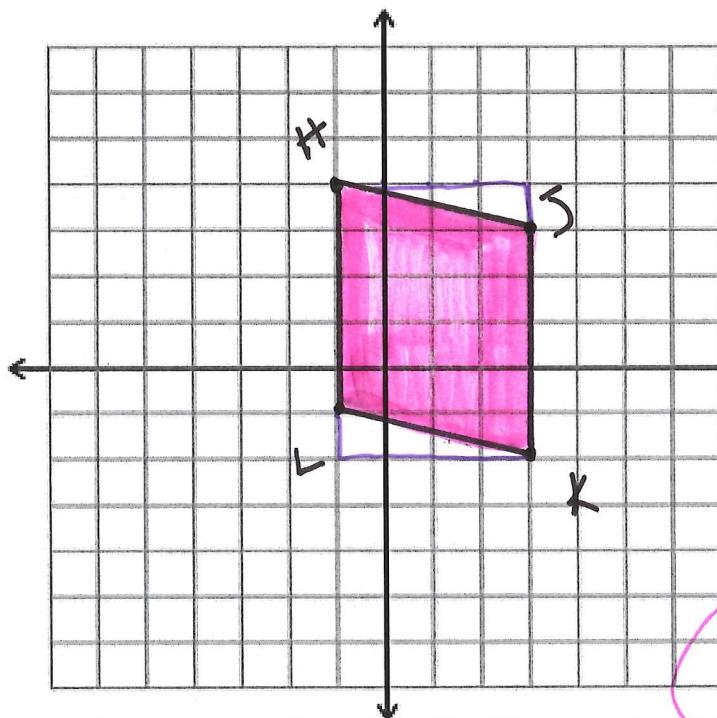
$$\text{Slope } HJ = 2$$

$$\text{Slope } LK = 2$$

$$HJ \parallel LK$$

$HJKL$ is a parallelogram because opposite sides are parallel

11. $H(-1, 4), J(3, 3), K(3, -2), L(-1, -1)$



$$\text{Slope } HJ = -\frac{1}{4}$$

$$\text{Slope } LK = -\frac{1}{4}$$

$$HJ \parallel LK$$

$$\text{Slope } HL = \text{undef.}$$

$$\text{Slope } JK = \text{undef.}$$

$$HL \parallel JK$$

$HJKL$ is a parallelogram because opposite sides are parallel.