

Name: _____

Unit 8: Polygons & Quadrilaterals



Date: _____ Per: _____

Homework 2: Parallelograms

** This is a 2-page document! **

Directions: If each quadrilateral below is a parallelogram, find the missing measures.

1.

$$\begin{aligned} KN &= \underline{31} \\ MN &= \underline{45} \\ m\angle K &= \underline{61^\circ} \\ m\angle L &= \underline{119^\circ} \\ m\angle M &= \underline{61^\circ} \end{aligned}$$

2.

$$\begin{aligned} CF &= \underline{10} \\ FE &= \underline{15} \\ CE &= \underline{14} \\ GD &= \underline{11} \end{aligned}$$

*FD = 22

3. Given $PQ = 24$, $PS = 19$, $PR = 42$, $TQ = 10$, $m\angle PQR = 106^\circ$, $m\angle QSR = 49^\circ$, and $m\angle PRS = 35^\circ$.

$$\begin{aligned} QR &= \underline{19} & m\angle QRS &= \underline{74^\circ} \\ SR &= \underline{24} & m\angle PQS &= \underline{49^\circ} \\ PT &= \underline{21} & m\angle RPS &= \underline{39^\circ} \\ SQ &= \underline{20} & m\angle PSQ &= \underline{57^\circ} \end{aligned}$$

4. Find KL .

$$\begin{aligned} 12x - 22 &= 7x - 2 \\ 5x &= 20 \\ x &= 4 \end{aligned}$$

$$\begin{aligned} KL &= 7(4) - 2 \\ &= \underline{26} \end{aligned}$$

5. If $AC = 8x - 14$ and $BC = 2x + 11$, solve for x .

$$\begin{aligned} 2(2x+11) &= 8x-14 \\ 4x+22 &= 8x-14 \\ 36 &= 4x \\ \boxed{x=9} \end{aligned}$$

6. Solve for x .

$$\begin{aligned} 3x+5 + 9x-17 &= 180 \\ 12x-12 &= 180 \\ 12x &= 192 \\ \boxed{x=16} \end{aligned}$$

7. Find $m\angle V$.

$$\begin{aligned} 10x-27 &= 2x+29 \\ 8x &= 56 \\ x &= 7 \end{aligned}$$

$$\begin{aligned} m\angle Y &= 10(7)-27 = 43^\circ \\ \boxed{m\angle V} &= \underline{137^\circ} \end{aligned}$$

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Wenbin Ji

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