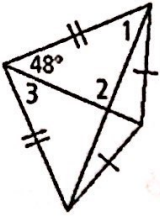


Day 5 – Trapezoids & Kites – Practice

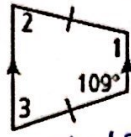
Find the measure of the number angles.

1.



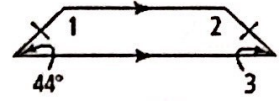
$\angle 1 = 42^\circ$
 $\angle 2 = 90^\circ$
 $\angle 3 = 48^\circ$

2.



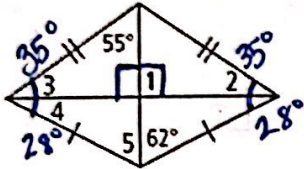
$\angle 1 = 109^\circ$
 $\angle 2 = 71^\circ$
 $\angle 3 = 71^\circ$

3.



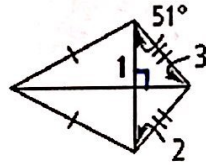
$\angle 1 = 136^\circ$
 $\angle 2 = 136^\circ$
 $\angle 3 = 44^\circ$

4.



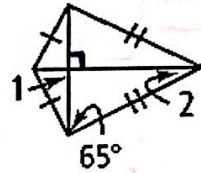
$\angle 1 = 90^\circ$
 $\angle 2 = 35^\circ$
 $\angle 3 = 35^\circ$
 $\angle 4 = 28^\circ$
 $\angle 5 = 62^\circ$

5.



$\angle 1 = 90^\circ$
 $\angle 2 = 39^\circ$
 $\angle 3 = 51^\circ$

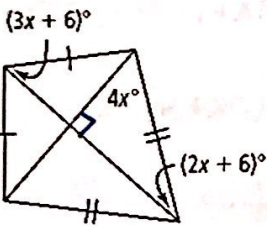
6.



$\angle 1 = 90^\circ$
 $\angle 2 = 25^\circ$

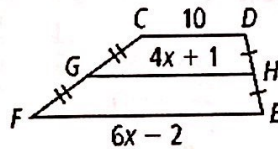
Solve for each variable in the diagrams.

7.



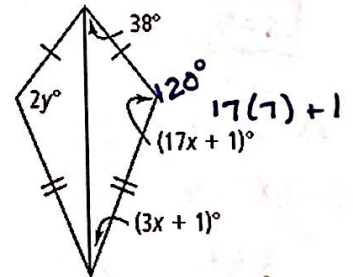
$4x + 2x + 6 + 90 = 180$
 $6x + 96 = 180$
 $6x = 84$
 $x = 14$

8.



$4x + 1 = \frac{1}{2}(6x - 2 + 10)$
 $4x + 1 = \frac{1}{2}(6x + 8)$
 $4x + 1 = 3x + 4$
 $x = 3$

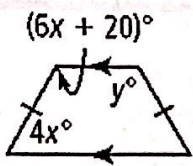
9.



$38 + 17x + 1 + 3x + 1 = 180$
 $20x + 40 = 180$
 $20x = 140$
 $x = 7$

$2y = 120$
 $y = 60$

10.



$$6x + 20 + 4x = 180$$

$$10x + 20 = 180$$

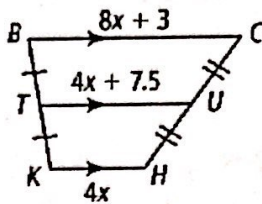
$$10x = 160$$

$$x = 16$$

$$6(16) + 20 = y$$

$$y = 116$$

11.



$$\frac{1}{2}(4x + 8x + 3) = 4x + 7.5$$

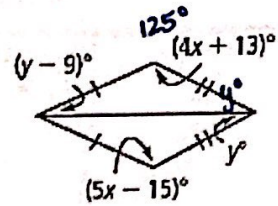
$$\frac{1}{2}(12x + 3) = 4x + 7.5$$

$$6x + 1.5 = 4x + 7.5$$

$$2x = 6$$

$$x = 3$$

12.



$$5x - 15 = 4x + 13$$

$$x = 28$$

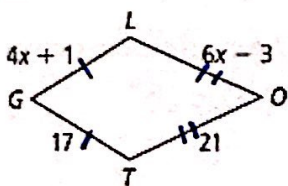
$$y - 9 + y + 125 = 180$$

$$2y + 116 = 180$$

$$2y = 64$$

$$y = 32$$

13.



$$4x + 1 = 17$$

$$4x = 16$$

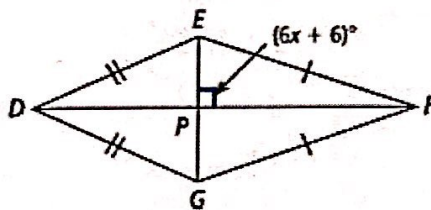
$$x = 4$$

$$6x - 3 = 21$$

$$6x = 24$$

$$x = 4$$

14.

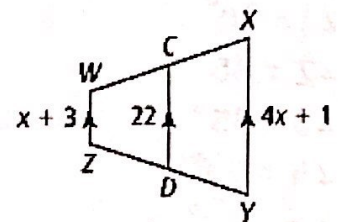


$$6x + 6 = 90$$

$$6x = 84$$

$$x = 14$$

15.



$$\frac{1}{2}(4x + 1 + x + 3) = 22$$

$$\frac{1}{2}(5x + 4) = 22$$

$$2.5x + 2 = 22$$

$$2.5x = 20$$

$$x = 8$$