

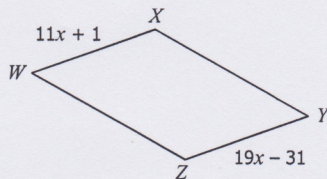
5A

5. Green

Find YZ .

$$YZ = 19(4) - 31$$

$$= 45$$



$$11x + 1 = 19x - 31$$

$$1 = 19x - 11x - 31$$

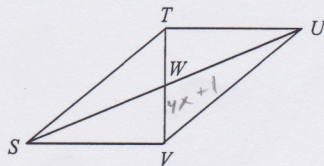
$$32 = 8x$$

$$x = 4$$

$$YZ = \underline{45}$$

5A

6. Purple

If $TV = 74$ and $WV = 4x + 1$, solve for x .

$$2(4x + 1) = 74$$

$$8x + 2 = 74$$

$$8x = 72$$

$$x = 9$$

$$TV = 74$$

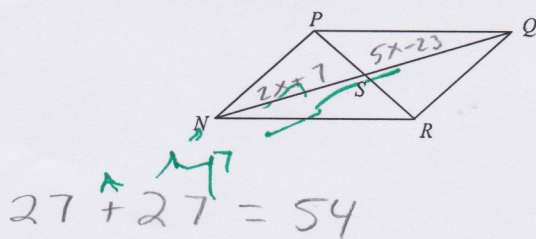
$$x = \underline{9}$$

20 min review parallelograms
on board

7. **Blue**

If $NS = 2x + 7$ and $SQ = 5x - 23$, find NQ .

$$\begin{aligned} NS &= 2(10) + 7 \\ NS &= 20 + 7 \\ NS &= 27 \end{aligned}$$

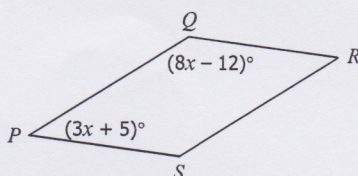


$$\begin{aligned} 2x + 7 &= 5x - 23 \\ 7 &= 5x - 2x - 23 \\ 7 &= 3x - 23 \\ 3x &= 30 \\ x &= 10 \end{aligned}$$

$$NQ = \underline{54}$$

8. **Orange**

Find $m\angle R$.



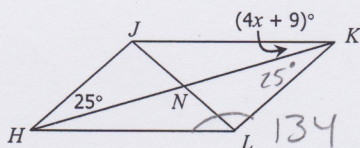
$$m\angle R = \underline{56^\circ}$$

$$\begin{aligned} 8x - 12 + 3x + 5 &= 180 \\ 11x - 7 &= 180 \\ 11x &= 187 \\ x &= 17 \end{aligned}$$

$$\begin{aligned} m\angle P &= 3(17) + 5 \\ m\angle P &= 56^\circ \\ m\angle R &= 56^\circ \end{aligned}$$

9. **Yellow**

If $m\angle KLH = 134^\circ$, solve for x .

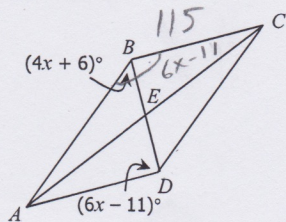


$$x = \underline{3}$$

$$\begin{aligned} 4x + 9 + 25 + 134 &= 180 \\ 4x + 168 &= 180 \\ 4x &= 12 \\ x &= 3 \end{aligned}$$

10. **Black**

If $m\angle ABC = 115^\circ$, find $m\angle ADB$.



$$m\angle ADB = \underline{61^\circ}$$

$$\begin{aligned} 4x + 6 + 6x - 11 &= 115 \\ 10x - 5 &= 115 \\ 10x &= 120 \\ x &= 12 \end{aligned}$$

$$\begin{aligned} m\angle ADB &= 6(12) - 11 \\ m\angle ADB &= 61^\circ \end{aligned}$$