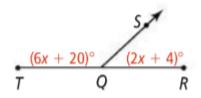
DAY 3 - 1'2 HOW6MOKK

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23. $\angle RQT$ is a straight angle.

What are $m \angle RQS$ and $m \angle TQS$?



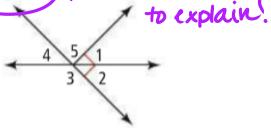
$$8x = 156$$

 $X = 19.5$
 $YM = 19.5$

Use the diagram at the right. Is each statement true? Explain.

)←make sure to explain

- 7. $\angle 1$ and $\angle 5$ are adjacent angles. Yes True
- **8.** $\angle 3$ and $\angle 5$ are vertical angles. False
- **9.** $\angle 3$ and $\angle 4$ are complementary. $\triangle 3$
- **10.** $\angle 1$ and $\angle 2$ are supplementary.

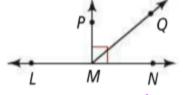


in the diagram at the right. LLMP & L PMN

25. $\angle EFG$ and $\angle GFH$ are a linear pair,

 $m \angle EFG = 2n + 21$, and $m \angle GFH = 4n + 15$.

What are $m \angle EFG$ and $m \angle GFH$? 2n+21 + 4n+15 = 180 6n=144 n=24



MLEFG=10° MLGFH=111°

32. The measure of one angle is 20 less than the measure of its complement.

X = (90 - x) - 20

2x=70 $X=35^{\circ}$

complement

37. Algebra $\angle RQS$ and $\angle TQS$ are a linear pair where $m \angle RQS = 2x + 4$ and $m \angle TQS = 6x + 20$.

2x+4+6x+20=180

- a. Solve for x = 9.5
- **b.** Find $m \angle RQS$ and $m \angle TQS$. $\angle RQS = 43^{\circ}$

8x+24=180

c. Show how you can check your answer. $M \ge 137^{\circ}$ 8x=150 43 + 137? 180? YES! X = 19.5