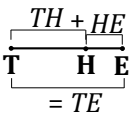
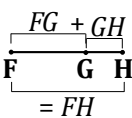
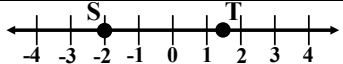
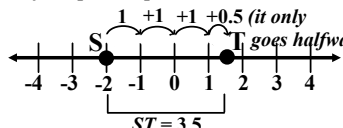
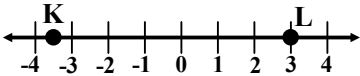
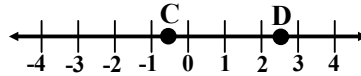
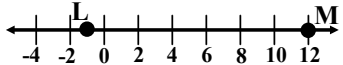
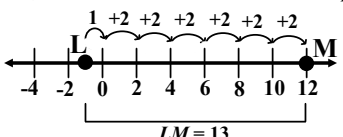
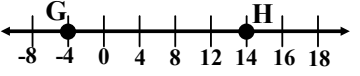
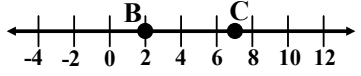


<p>H is between points T and E. $TE = 9x$, $TH = 6x$, and $HE = 12$. $TE = ?$</p> <p style="text-align: center;"><i>DRAW IT!!</i></p>  <p>$TH + HE = TE$ $TE = 9x$ $TH = 6x \rightarrow TH + HE = TE$ $HE = 12$</p> $\begin{array}{r} 6x + 12 = 9x \\ -6x \quad -6x \\ \hline 12 = 3x \\ \div 3 \quad \div 3 \\ \hline 4 = x \end{array}$ <p>$TE = 9x = 9(4) = 36$</p> <p><i>I know that H is between points T & E, which tells me what the segment \leftarrow looks like. Because of that, I have my equation. Now, I'll plug in what I know.</i></p> <p><i>The problem asks $TE = ?$ so...</i></p>	<p>7. N is between points A and Y. $AN = 5x$, $NY = 2x$, and $AY = 8x - 2$. $NY = ?$</p>	<p>8. R is between points B and O. $BO = 5x$, $RO = 2x$ and $BR = 9$. $RO = ?$</p>
<p>G is between points F and H. $FH = 2x + 5$, $FG = x + 6$, and $GH = 9$. $FH = ?$</p> <p style="text-align: center;"><i>DRAW IT!!</i></p>  <p>$FG + GH = FH$ $FH = 2x + 5$ $FG = x + 6 \rightarrow$ $GH = 9$</p> $\begin{array}{r} x + 6 + 9 = 2x + 5 \\ x + 15 = 2x + 5 \\ -x \quad -x \\ \hline 15 = x + 5 \\ -5 \quad -5 \\ \hline 10 = x \end{array}$ <p>$FH = 2x + 5 = 2(10) + 5$ $= 20 + 5$ $FH = 25$</p> <p><i>I know that G is between points F & H, which tells me what the segment \leftarrow looks like. Because of that, I have my equation. Now, I'll plug in what I know.</i></p> <p><i>The problem asks $FH = ?$ so...</i></p>	<p>9. R is between points A and T. $RT = 3x + 1$, $AT = 7x + 2$, and $AR = 2x + 7$. $RT = ?$</p>	<p>10. M is between points I and A. $IA = 8x - 4$, $MA = 3x + 2$ and $IM = 4x + 2$. $AM = ?$</p>

BONUS: Sometimes, you have to measure length based off of a number line. The easiest way to do this is to simply count the tick marks. Be careful, though: each tick mark doesn't always measure one unit.

 <p><i>Just count from point to point:</i></p>  <p>$ST = 3.5$</p>	<p>11. $KL = ?$</p> 	<p>12. $CD = ?$</p> 
 <p><i>Remember, each mark is worth 2!! Count 'em up.</i></p>  <p>$LM = 13$</p>	<p>13. $GH = ?$</p> 	<p>14. $BC = ?$</p> 

Worksheet Answer Key

Title

1. x =
2. x =
3. x =
4. x =
5. x =
6. x =
7. x =
8. x =
9. x =
10. x =
11. x =
12. x =
13. x =
14. x =
15. x =
16. x =
17. x =
18. x =
19. x =
20. x =
21. x =
22. x =
23. x =