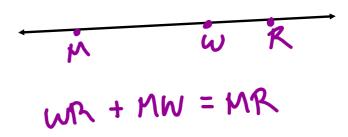
1. Draw a figure the models the following situation, and then create a true equation using their segment lengths:

"R, W, and M are collinear points, and W is between M and R"

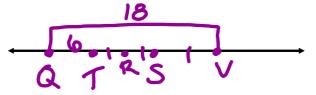


2. S is between T and V, R is between S and T, and T is between R and Q

$$QV = 18$$

$$QT = 6$$

$$TR = RS = SV$$



- a) Find RS 4
- b) Find QS 14
- c) Find TS 8
- d) Find TV \2

3. Given that *J* is between *H* and *K*, solve for *x* and find the length of each segment:

a)
$$HJ=5x-3$$
 52 $JK=8x-9$ 79 $KH=131$

$$HJ+Jk=kH$$

$$(5x-3)+(8x-9)=131$$

$$13x-12=13$$

$$13x=143$$

$$x=11$$

b)
$$HJ = 2x + \frac{1}{3} \frac{7}{3} (2x + \frac{1}{3}) + (5x + \frac{2}{3}) = 12x - 4$$

 $JK = 5x + \frac{2}{3} \frac{17}{3}$
 $KH = 12x - 4$
 $KH = 12x - 4$
 $S = 5x$
 $X = 1$