




KEY GEOMETRY TERMS

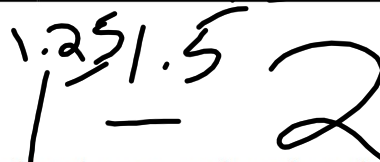
Point: Has neither thickness nor width. 

Line: An object with no thickness or width. That passes through a minimum of two points. 

Line Segments: Unlike a line, a line seg can be measured because it has start & end. 

Plane: A flat surface made up of points, that extends indefinitely.

Meaning:	Notation:
<ul style="list-style-type: none"> • Line segment with endpoints A and B • Line containing points A and B 	<ul style="list-style-type: none"> • \overline{AB} • \overleftrightarrow{AB}

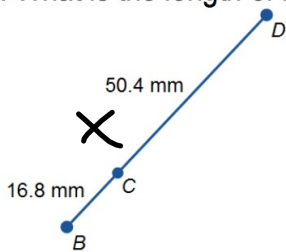


Betweenness- For any two real numbers a and b , there is some real number n between a and b such that $a < n < b$. This relationship is called betweenness.

Example 1:

FINDING MEASUREMENTS OF LINE SEGMENTS

a. What is the length of line BD?

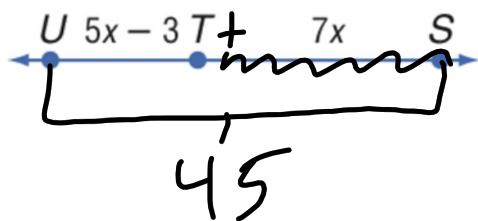


$$\begin{array}{r}
 50.4 \\
 + 16.8 \\
 \hline
 67.2
 \end{array}$$

Example 2:

WRITE AND SOLVE EQUATIONS TO FIND MEASUREMENTS

Find the value of x and ST if T is between S and U ,
 $ST = 7x$, $SU = 45$, and $TU = 5x - 3$.



$$5x - 3 + 7x = 45$$

$$12x - 3 = 45$$

$$+ 3 \quad + 3$$

$$12x = 48$$

$$\frac{12x}{12} = \frac{48}{12}$$

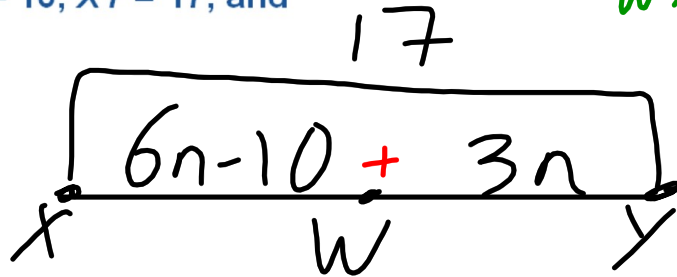
$$x = 4$$

$$ST = 7x$$

$$ST = 7(4)$$

$$ST = 28$$

Find the value of n and WX if W is between X and Y , $WX = 6n - 10$, $XY = 17$, and $WY = 3n$.



$$\begin{aligned}
 WX &= 6n - 10 \\
 &= 6(3) - 10 \\
 &= 18 - 10 \\
 &= 8
 \end{aligned}$$

$$6n - 10 + 3n = 17$$

$$9n - 10 = 17$$

$$9n = 27$$

$$n = 3$$

$$WX = 8$$