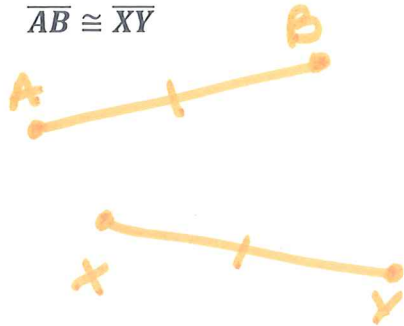


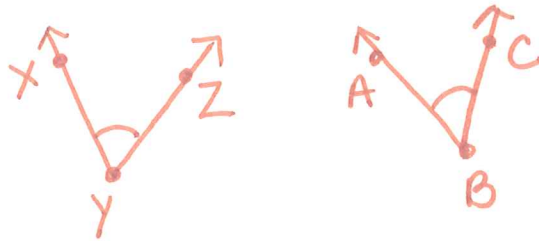
### Segments Review Day 1 Notes

Directions: Illustrate the following.

1.  $\overline{AB} \cong \overline{XY}$



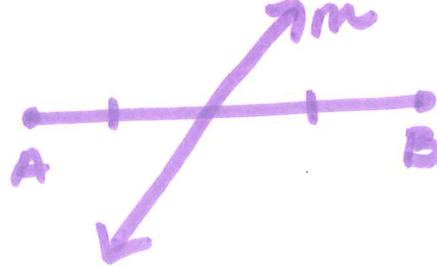
2.  $\angle XYZ \cong \angle ABC$



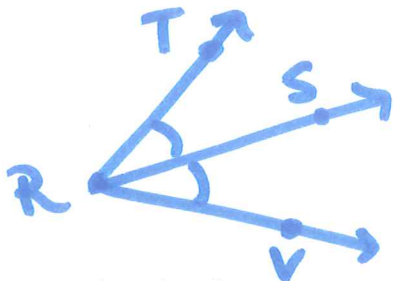
3. Point P is the midpoint of  $\overline{MN}$



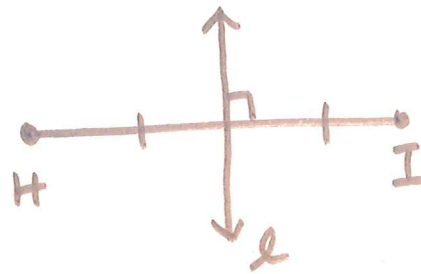
4. Line m is a segment bisector of  $\overline{AB}$



5.  $\overline{RS}$  is an angle bisector of  $\angle TRV$



6. Line l is a  $\perp$  bisector of  $\overline{HI}$



7. Describe the figure as a point, line, segment, or ray.

a) Ray AB



b) Segment XY



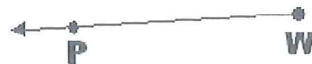
c) Line JP



d) segment MS



e) Ray wP

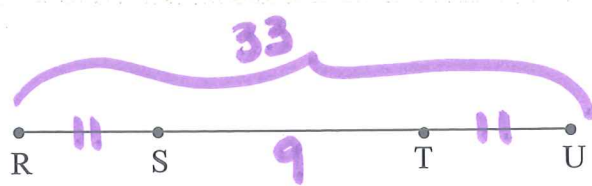


f) Line KP



8.  $RS \cong TU$ ,  $ST = 9$ ,  $RU = 33$

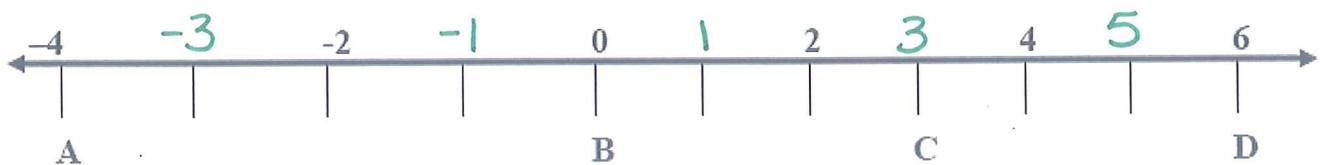
\*the figure is not drawn to scale\*



a) Find  $RS = 12$

b) Find  $SU = 21$

For questions 3-8, refer to the number line below to find each measure.



3.  $AB = -4 \text{ to } 0 = 4 \text{ units}$

6.  $CB = 0 \text{ to } 3 = 3 \text{ units}$

4.  $CD = 2 \text{ to } 6 = 4 \text{ units}$

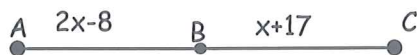
7.  $DA = -4 \text{ to } 6 = 10 \text{ units}$

5.  $BD = 0 \text{ to } 6 = 6 \text{ units}$

8.  $AC = -4 \text{ to } 3 = 7 \text{ units}$

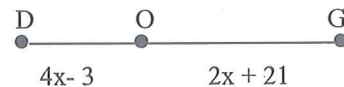
Refer to the figure and the given information to find each measure.

9. Given:  $AC = 39 \text{ m}$



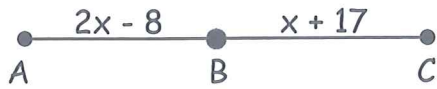
$x = 10$   
 $AC = AB + BC$  seg. addition  
 $39 = 2x - 8 + x + 17$   
 $39 = 3x + 9$   
 $30 = 3x$   
 $x = 10$

10. Given the figure and  $DG = 60 \text{ ft}$ .



$x = 7$   
 $DO + OG = DG$  seg. addition  
 $4x - 3 + 2x + 21 = 60$   
 $6x + 18 = 60$   
 $6x = 42$   
 $x = 7$

11. B is the midpoint of AC.



$$x = \underline{25} \quad AB = \underline{42}$$
$$BC = \underline{42} \quad AC = \underline{84}$$

$AB \cong BC$  def of midpt

$$2x - 8 = x + 17$$

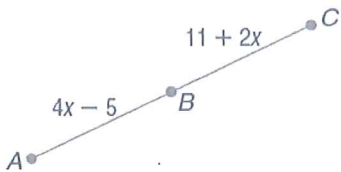
$$x - 8 = 17$$

$$x = 25$$

$$AB = 2(25) - 8$$

$$BC = 25 + 17$$

12. Find the measure of  $\overline{BC}$  if B is the midpoint of  $\overline{AC}$ .



$$x = \underline{8} \quad BC = \underline{27}$$

$AB \cong BC$  def of midpt

$$4x - 5 = 11 + 2x$$

$$2x - 5 = 11$$

$$2x = 16$$

$$\boxed{x = 8}$$

$$BC = 11 + 2(8)$$

$$\boxed{BC = 27}$$