

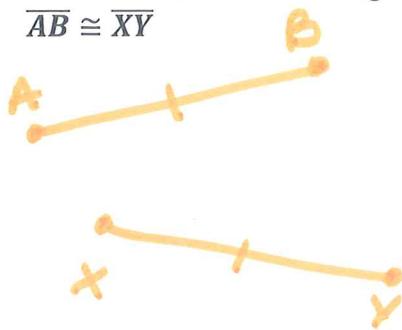
Name _____

Hour: _____

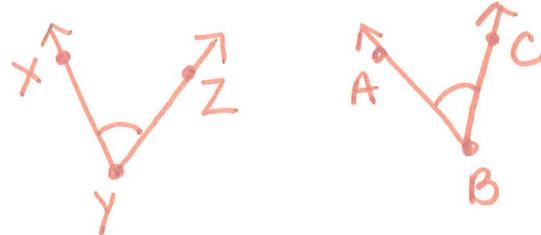
Segments Review Day 1 Notes

Directions: Illustrate the following.

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



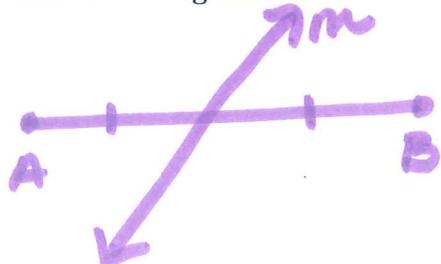
2. $\angle XYZ \cong \angle ABC$



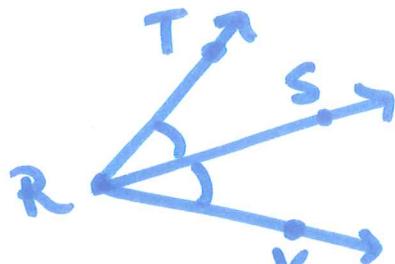
3. Point P is the midpoint of \overline{MN}



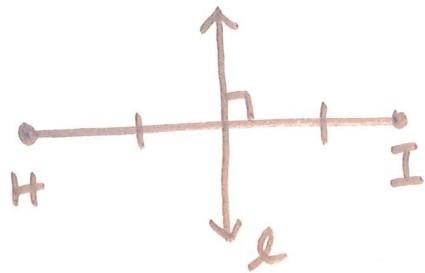
4. Line m is a segment bisector of \overline{AB}



5. \overrightarrow{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.

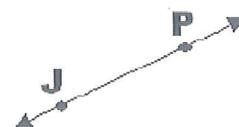
a) Ray AB



b) Segment XY



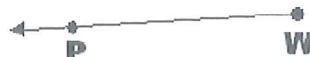
c) Line JP



d) Segment MS



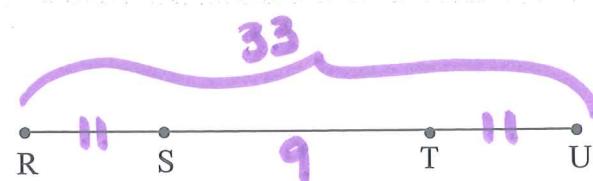
e) Ray WP



f) Line KP



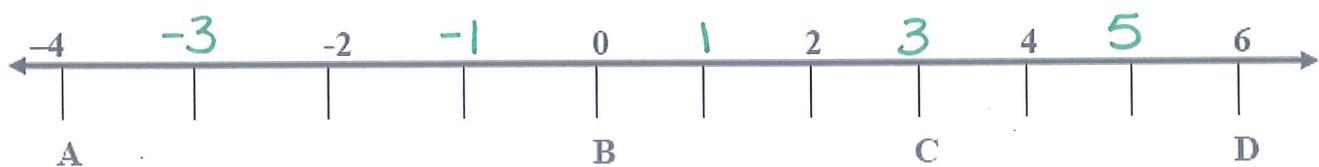
8. $RS \cong TU$, $ST = 9$, $RU = 33$
 the figure is not drawn to scale



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

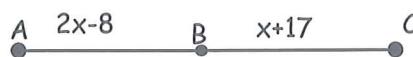
7. $DA = -4 \text{ to } 6 = 10 \text{ units}$

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

$AB = 12 \text{ m}$

$39 = 2x - 8 + x + 17$

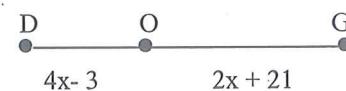
$BC = 27 \text{ m}$

$39 = 3x + 9$

$30 = 3x$

$x = 10$

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



$x = 7$

$DO = 25 \text{ ft}$

$OG = 35 \text{ ft}$

$DO + OG = DG$ seg. addition

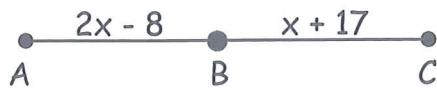
$4x - 3 + 2x + 21 = 60$

$6x + 18 = 60$

$6x = 42$

$x = 7$

11. B is the midpoint of \overline{AC} .



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

$AB \cong BC$ def of midpt

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

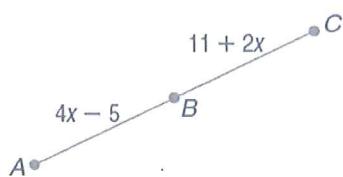
$$x - 8 = 17$$

$$x = 25$$

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

$$BC = 25 + 17$$

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



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

$AB \cong BC$ def of midpt

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

$$2x - 5 = 11$$

$$2x = 16$$

$$\boxed{x = 8}$$

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

$$\boxed{BC = 27}$$