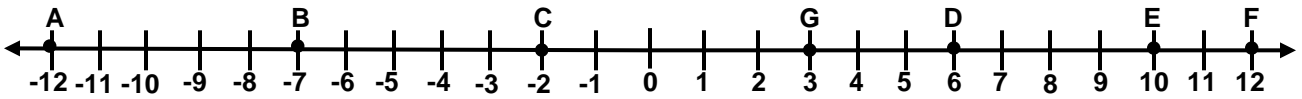


NAME _____ DATE _____ PER. _____

SEGMENTS – MIDPOINT, DISTANCE, ADDITION, BISECTOR

Use the number line below to find the coordinate of the midpoint of each segment.

1. \overline{AB}

Midpoint: _____

2. \overline{CD}

Midpoint: _____

3. \overline{AE}

Midpoint: _____

4. \overline{GE}

Midpoint: _____

Given that R is between S and T, find each missing measure.

5. $RS = 6$, $TR = 4.5$, $TS =$ _____6. $ST = 15$, $SR = 6$, $RT =$ _____If U is between T and B, find the value of "x" and the measure of \overline{TU} .7. $TU = 2x$, $UB = 3x + 1$, $TB = 21$

x = _____

TU = _____

8. $TU = 4x - 1$, $UB = 2x - 1$, $TB = 5x$

$x =$ _____

$TU =$ _____

9. $TU = 1 - x$, $UB = 4x + 17$, $TB = -3x$

$x =$ _____

$TU =$ _____

Find the indicated values.

10. B is between A and C. $AB = 2x + 1$, $BC = 3x - 4$, and $AC = 62$. Find the value of 'x', and determine if B is a bisector.

$x =$ _____

Bisector: YES or NO?

11. M is between L and N. $LM = 7x - 1$, $MN = 2x + 4$, and $LN = 12$. Find the value of 'x' and determine if M is a bisector.

$x =$ _____

Bisector: YES or NO?

Use the figure below for problems 16-17. \overline{EC} bisects \overline{AD} at C. Find the value of "x" and the measure of the indicated segment.

12. $AC = 3x + 6$ and $CD = 2x + 14$

$x =$ _____

$AC =$ _____

13. $AC = 5x - 8$ and $CD = 16 - 3x$

$x =$ _____

$AD =$ _____

