

Name: _____ Teacher: _____ Date: _____

Measuring Segments Assignment

Write the Segment Addition Postulate for the points described.

1. S is between D and P
2. J is between S and H

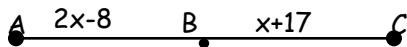
3. C is between Q and R
4. T is between M and N

Find QR in the following problems.

5. If $RS = 44.6$ and $SQ = 68.4$, find QR.
6. If $RS = 33.5$ and $RQ = 80$, find SQ.

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

7. Given : $AC = 39$ m

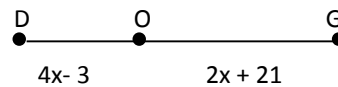


X = _____

AB = _____

BC = _____

8. Given the figure and $DG = 60$ ft.



- A. Solve for X

- B. Find the length of segments DO and OG

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C is between A and E. For each problem, draw a picture representing the three points and the information given. Solve for indicated length.

9. If $AC = 24$ in. and $CE = 13$ in., $AE =$ _____. 10. If $CE = 7$ in. and $AE = 23$ in., $AC =$ _____.

If U is between T and B, find the value of x and the measure of \overline{TU} . (Hint: Draw a picture for each problem with the given information and then write the equation to solve.)

- | | | |
|--|--|---|
| 11. $TU = 2x$, $UB = 3x + 1$,
$TB = 21$ | 12. $TU = 4x - 1$, $UB = 2x - 1$,
$TB = 5x$ | 13. $TU = 1 - x$, $UB = 4x + 17$,
$TB = -3x$ |
|--|--|---|

14. Two segments are congruent if their lengths are equal. The symbol for congruent is \cong .