Name: _____ Period: _____ 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

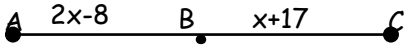
**Find QR in the following problems.**

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

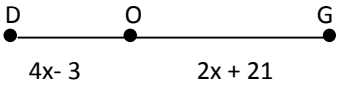



X = _____

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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Name: _____ Period: _____ Date: _____

# Measuring Segments Assignment

**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 = 7in. 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 $\cong$.



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# Measuring Segments Assignment

ANSWERS

**Write the Segment Addition Postulate for the points described.**

1. S is between D and P

**D-----S-----P**

2. J is between S and H

**S---J---H**

3. C is between Q and R

**Q----C----R**

4. T is between M and N

**M----T----N**

**Find QR in the following problems.**

5. If RS = 44.6 and SQ = 68.4, find QR.

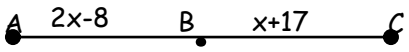
**QR = 23.8**

6. If RS = 33.5 and RQ = 80, find SQ.

**SQ = 46.5**

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

7. Given : AC = 39 m

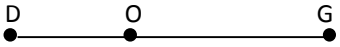



X = **10**

AB = **12m**

BC = **27m**

8. Given the figure and DG = 60 ft.




4x- 3 2x + 21

C. Solve for X

**X = 7**

D. Find the length of segments DO and OG

**DO = 25ft.**

**OG = 35ft.**



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# Measuring Segments Assignment

**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 = **37in.**

10. If CE = 7in. and AE = 23 in., AC = 16in.

**A----C----E**

**A-----C-----E**

**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

**TU = 8.8**
**X = 4.4**

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

**TU = 7**
**X = 2**

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

**TU = 4**
**X = -3**

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

**YES**



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