Geometry Congruence & Segment Addition Name_____ Date:_____Period:____

Write the Segment Addition Postulate for the points described. Draw a picture to help.

1. S is between D and P	2. J is between S and H
C is between Q and R	T is between M and N

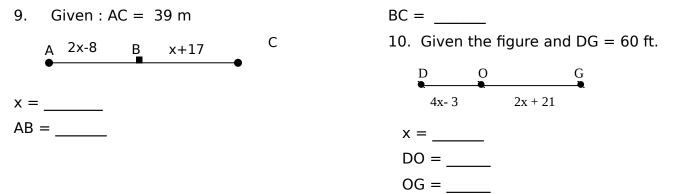
C is between A and E. For each problem, draw a picture representing the three points and the information given. Solve for indicated.

5. If AC = 24 in. and CE = 13 in., AE =_____. 6. If CE = 7in. and AE = 23 in., AC =_____.

Find QR in the following problems. R is between Q and S.

7. If RS = 44.6 and SQ = 68.4, find QR. 8. If RS = 33.5 and RQ = 80, find SQ.

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



If U is between T and B, find the value of x and the lengths of the segments. (Hint: Draw a

picture for each problem with the given information and then write the equation to solve.)

1. TU = 2x, UB = 3x + 1, TB = 21



Write an equation for the each:

- 3. Segment AB is congruent to segment BC _____
- 4. $\overline{XY} \cong \overline{AB}$ _____
- 5. Point B bisects segment AC_____
- 6. 2x+5 is equal to 4x-8_____
- 7. Point A is the midpoint of segment PT_____

For 8 and 9 suppose \overline{RS} is congruent to \overline{MN} . For each set of lengths, solve for x, and find the length of each segment. For 10-12, $\overline{AB} \cong \overline{BC}$.

