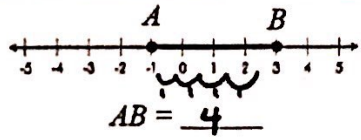
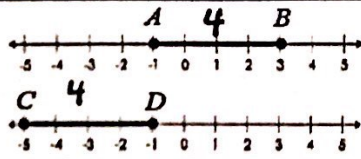
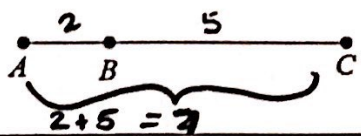
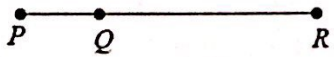
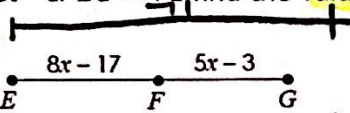
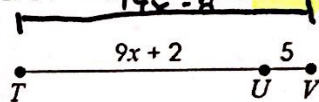
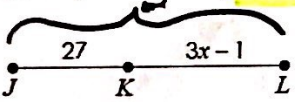
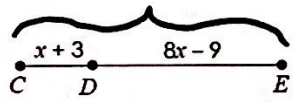
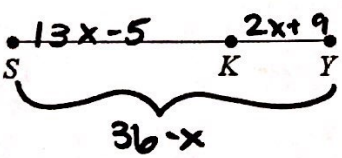


Main Ideas/Questions	Notes/Examples	1.3 Measuring Segments
Measuring Segments	The distance between two points A and B can be written as <u>the length of \overline{AB}</u> or <u>\overline{AB}</u> .	
Congruent Segments	If <u>$\overline{AB} = \overline{CD}$</u> , then the segments are congruent. This is written as <u>$\overline{AB} \cong \overline{CD}$</u> .	
Segment Addition Postulate	If A, B, and C are collinear points and B is between A and C, then <u>$\overline{AB} + \overline{BC} = \overline{AC}$</u> .	
Examples	Use the diagram below for questions 1 and 2. 	1. If $PQ = 9$ and $QR = 28$, find PR . $9 + 28 = 37$ 2. If $QR = 17$ and $PR = 21$, find PQ . $21 - 17 = 4$
3. If $EG = 71$, find the value of x .  $8x - 17 + 5x - 3 = 71$ $13x - 20 = 71$ $13x = 91$ $x = 7$	4. If $TV = 14x - 8$, find TU .  $9x + 2 + 5 = 14x - 8$ $9x + 7 = 14x - 8$ $15 = 5x$ $3 = x$ $TU = 9(3) + 2$ $= 27 + 2$ $= 29$	
5. If $JL = 5x + 2$, find JL .  $27 + 3x - 1 = 5x + 2$ $3x + 26 = 5x + 2$ $24 = 2x$ $12 = x$ $JL = 5(12) + 2$ $= 60 + 2$ $= 62$	6. If $CE = 7x + 4$, find the value of x .  $x + 3 + 8x - 9 = 7x + 4$ $9x - 6 = 7x + 4$ $2x = 10$ $x = 5$	
7. If $SK = 13x - 5$, $KY = 2x + 9$, and $SY = 36 - x$, find each value.  $13x - 5 + 2x + 9 = 36 - x$ $15x + 4 = 36 - x$ $16x = 32$ $x = 2$ $SK = 13(2) - 5$ $26 - 5$ 21 $KY = 2(2) + 9$ $4 + 9$ 13 $SY = 36 - 2$ 34 $x = 2$ $SK = 21$ $KY = 13$ $SY = 34$		

add the parts to equal the total
part + part = total