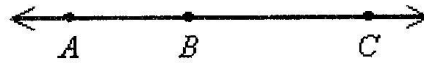


Name: \_\_\_\_\_ Date: \_\_\_\_\_

\_\_\_\_ 1. The notation for the length of the segment between  $P$  and  $Q$  is \_\_\_\_\_.

- A.  $\vec{QP}$
- B.  $\overline{PQ}$
- C.  $\overleftrightarrow{PQ}$
- D.  $\overleftrightarrow{PQ}$

2. If  $AB = 10$  and  $AC = 25$ , find the length of  $\overline{BC}$ .



\_\_\_\_ 3. If  $RS = 33.6$  and  $QS = 79$ , find  $QR$ .



- A. 112.6
- B. 33.6
- C. 35.4
- D. 45.4

4. Let  $C$  be between  $D$  and  $E$ . Use the Segment Addition Postulate to solve for  $v$ .

$$DC = 3v - 30$$

$$CE = 6v - 15$$

$$DE = 27$$

- \_\_\_\_ 5. Let  $C$  be between  $D$  and  $E$ . Use the Segment Addition Postulate to solve for  $v$ .
- $DC = 3v - 30$   
 $CE = 6v - 15$   
 $DE = 27$
- A.  $v = 11$   
 B.  $v = 3$   
 C.  $v = 8$   
 D.  $v = -5$
- \_\_\_\_ 6.  $R$ ,  $S$ , and  $T$  are collinear.  $S$  is between  $R$  and  $T$ .  $RS = 2w + 1$ ,  $ST = w - 1$ , and  $RT = 18$ . Use the Segment Addition Postulate to solve for  $w$ . Then determine the length of  $\overline{RS}$ .
- A. 16  
 B. 5  
 C. 13  
 D. 6

Fill in the correct word(s) to make the statement true.

7. Mathematical statements that are assumed to be true are called \_\_\_\_\_.

8. a. What is the exact distance between  $P$  and  $M$ ? Explain.  
 b. If the distance between  $Q$  and  $N$  is 42, what is  $x$ ? Justify your answer.  
 c. If the distance between  $Q$  and  $N$  is  $3.5x$ , what is  $x$ ? Justify your answer.

