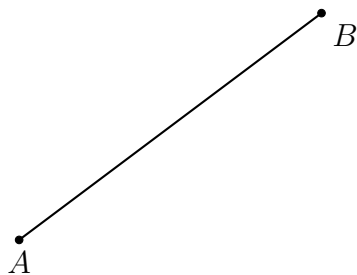


Name:

### 1.1 Classwork: Segment addition, vocabulary

1. Use symbols to write the names of objects in the given figure.



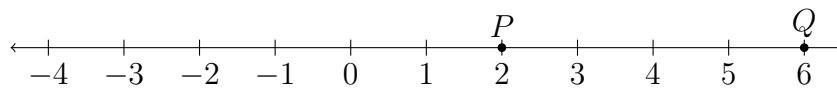
(a) The two endpoints

(b) The name of the line segment

(c) The length of the segment in centimeters (expressed as an equation)

2. A(n) \_\_\_\_\_ is a portion of a line that includes two points and all of the collinear points between the two points.

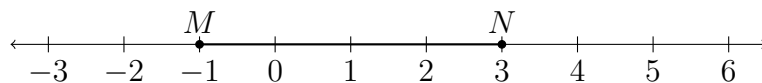
3. Given  $\overline{PQ}$  as shown on the number line.



What is the distance between  $P$  and  $Q$ ?

$PQ =$

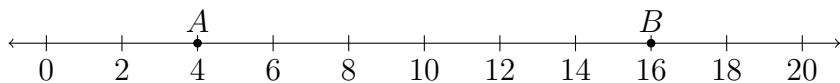
4. Two points  $M(-1)$ ,  $N(3)$  and the segment  $\overline{MN}$  are shown on the number line.



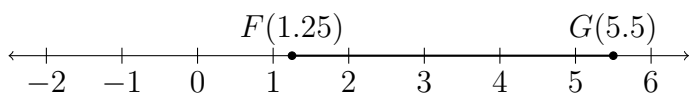
What is the length of the segment  $\overline{MN}$ ? Show your work as an equation.

5. Can a length be a negative number? Can it be zero?

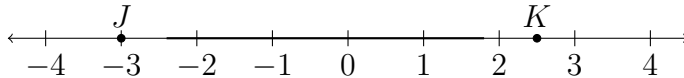
6. Points  $A = 4$  and  $B = 16$  are shown below. Find  $AB$ .



7. Given  $\overline{FG}$  as shown. What is the distance on the number line between the points?



8. Given  $J(-3.0)$  and  $K(2.5)$ , as shown on the number line. Find the length of the line segment  $\overline{JK}$ .



9. Terry is 63 inches tall and Steven is 68 inches tall. State who is taller and by how much.
10. Dr. Huson bicycles from 80th Street to 164th Street (straight north). How many blocks is that?