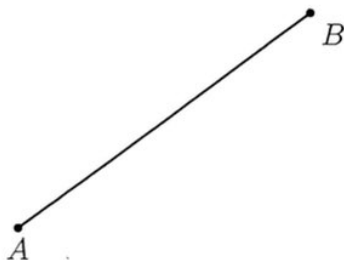


1.1 Classwork: Segment addition, vocabulary

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



- (a) The two endpoints

A, B

- (b) The name of the line segment

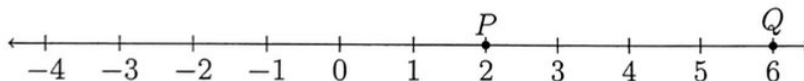
AB

- (c) Measure the segment. Write its length in centimeters (expressed as an equation).

$$AB = 6 \text{ cm}$$

2. A(n) line segment is a portion of a straight line that includes two points and all of the points between the two points.

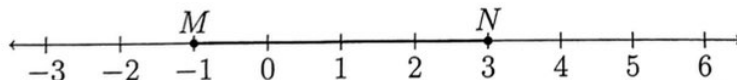
3. Given \overline{PQ} as shown on the number line.



What is the distance between P and Q?

$$PQ = 6 - 2 = 4$$

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.

$$MN = 3 - (-1) = 4$$

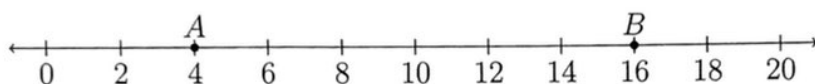
5. Can a length be a negative number? Can it be zero?

No.

Yes.

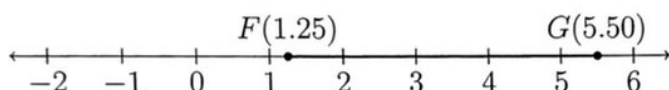
All lengths are non-negative

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



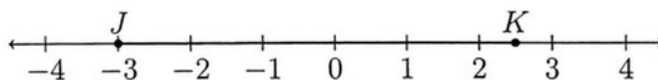
$$AB = 16 - 4 = 12$$

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



$$FG = 5.50 - 1.25 = 4.25$$

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



$$JK = 2.5 - (-3.0) = 5.5$$

9. Terry is 63 inches tall and Steven is 68 inches tall. State who is taller and by how much.

Steven Terry is taller.

$$\text{Diff} = 68 - 63 = 5 \text{ inches}$$

10. Dr. Huson bicycles from 80th Street to 164th Street (straight north). How many blocks is that?

$$d = 164 - 80 = 84 \text{ blocks}$$