

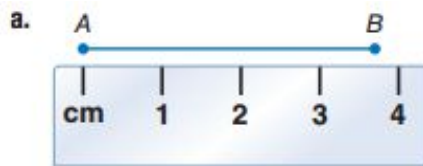
Objectives:

The student will be able to measure the distance between points.

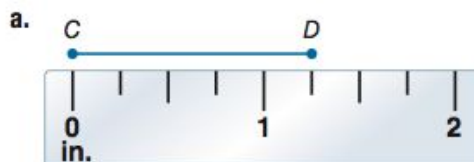
The student will be able to apply the segment addition postulate to measure distance.

**Line Segment (segment):**

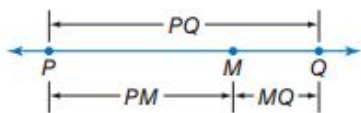
1. Find the length of  $\overline{AB}$  using each ruler.



2. Find the length of  $\overline{CD}$  using each ruler.

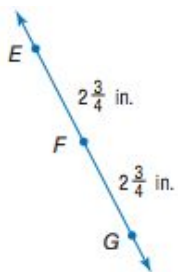


**Segment Addition Postulate:**

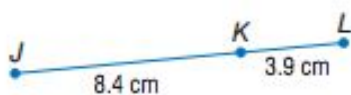


3. Find the measurement of the following line segments:

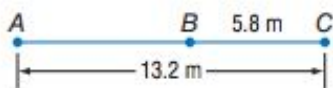
a.  $EG$



b.  $JL$



c.  $AC$



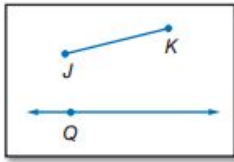
4. Find the value of  $a$  and  $XY$  if  $Y$  is between  $X$  and  $Z$ ,  $XY = 3a$ ,  $XZ = 5a - 4$ , and  $YZ = 14$

**Congruent Segments:**

## Constructions

### **Construction** Copy a Segment

**Step 1** Draw a segment  $\overline{JK}$ . Elsewhere on your paper, draw a line and a point on the line. Label the point  $Q$ .



**Step 2** Place the compass at point  $J$  and adjust the compass setting so that the pencil is at point  $K$ .



**Step 3** Using that setting, place the compass point at  $Q$  and draw an arc that intersects the line. Label the point of intersection  $R$ .

