

G.1.B. Apply the distance and midpoint formulas to points and segments to find midpoints, distances, and missing information. Students will determine segment lengths using rulers and segment addition.

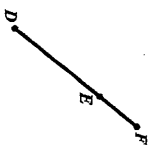
### Segment Fun Sheet!

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

1. Measure  $\overline{AC}$  in inches and centimeters.



2.



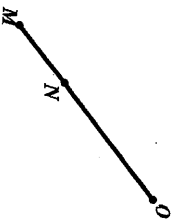
If  $\overline{DF} = 60$  and  $\overline{DE} = 51$ , what is the length of  $\overline{EF}$ ?

3.



Solve for  $x$  if  $\overline{GH} = 2x$ ,  $\overline{HI} = 3x$  and  $\overline{GI} = 75$ .

4.



$\overline{NO}$  is  $2\overline{MN}$ . If  $\overline{MN} = 6$ , what is the length of  $\overline{NO}$ ?

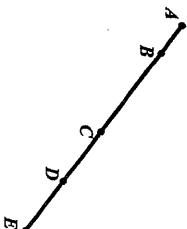
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5.



In the diagram,  $\overline{PT} = 80$ , point S bisects  $\overline{RT}$ ,  $\overline{PQ} = \overline{ST}$  and  $\overline{QR} = \overline{RT}$ . What is  $\overline{QR}$ ?

6.



In the diagram,  $\overline{CE} = 80$ ,  $\overline{CD} = \frac{1}{2} \overline{CE} = \overline{DE}$ . What is the length of  $\overline{CB}$ ?

7. Points M, N, O, and P are collinear. Point O is between points M and N. Point N is between O and P. N is the midpoint of  $\overline{MP}$ .  $\overline{MP}$  is 100 inches and  $\overline{ON} = \frac{1}{4} \overline{MO}$ . What is the length of  $\overline{ON}$ ? Hint: Draw the picture!