

## GQ: How do we measure line segments?

CCSS: HSG.CO.A.1 Know precise geometric definitions

1.6 Friday 2 Oct

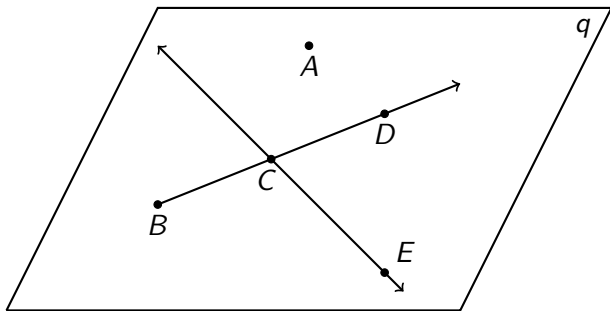
Do Now: complete assessments questions

1. How do we work efficiently and be a good scholar
2. What should we know and be able to do

Lesson: Review and practice of line segments and congruence

# 1) Complete each item. Use the Classkick tool bar.

1. Circle the point  $A$  with a blue pen
2. Use the highlighter tool to mark in yellow the ray  $\overrightarrow{BD}$
3. Type the name of the plane in red here  $\rightarrow$



## 2) Sketch an isosceles triangle

Mark the congruent sides with tick marks.

3) Draw a ray. (careful! which direction does it go?)

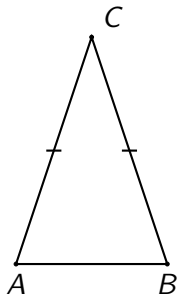
Given the points  $X$  and  $Y$ , draw  $\overrightarrow{YX}$ .

$\cdot$   
 $X$

$\cdot$   
 $Y$

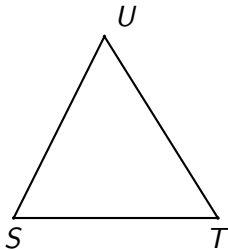
## 4) Use proper notation (including the bar over the letters)

Given  $\triangle ABC$  write down two congruent line segments using proper notation.



5) On the diagram mark the congruent line segments with tick marks.

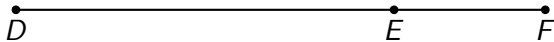
Given  $\triangle STU$  with  $\overline{ST} \cong \overline{TU}$ .



## 6) Apply the Segment Addition Postulate

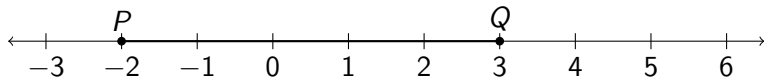
Show your work by marking the diagram and writing an equation.

Given  $\overline{DEF}$ ,  $DE = 8.5$ , and  $EF = 2.5$ . Find  $DF$ .



7) Find the length of the line segment  $\overline{PQ}$ .

Given  $P(-2)$  and  $Q(3)$ , as shown on the number line.



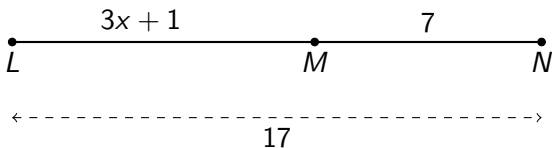
State an equation and the solution.

Check your work by counting the distance. Leave marks to show your work.



8) Solve for  $x$  using the segment addition postulate

Given  $\overline{LMN}$ ,  $LM = 3x + 1$ ,  $MN = 7$ ,  $LN = 17$ . Find  $x$ .

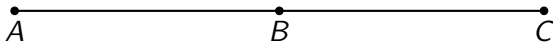


1. Write down an equation to represent the situation.
2. Solve for  $x$ .
3. Check your answer.

9) Solve for  $x$  given a bisector

Given  $M$  is the midpoint of  $\overline{AB}$ ,  $AM = 5x + 2$ ,  $MB = 20$ .

1. Mark the diagram with the values and tick marks
2. Write an equation and solve for  $x$
3. Check your result



10) Mark the diagram and state your answer as a fraction

Given  $\overline{RST}$ ,  $RS = 3\frac{2}{3}$ , and  $RT = 9\frac{1}{3}$ . Find  $ST$ .

