

GQ: How do we measure line segments?

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

1.6 Friday 2 Oct

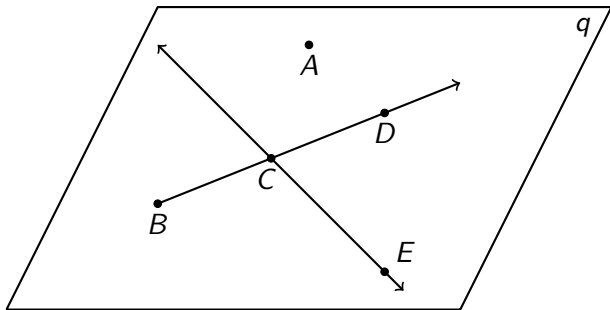
Do Now: complete assessments questions

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?)

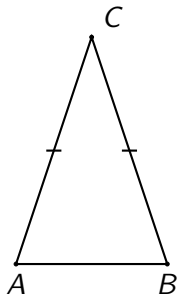
Given the points X and Y , draw \overrightarrow{YX} .

\dot{X}

\dot{Y}

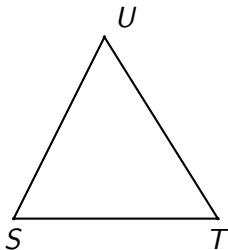
4) Use proper notation (including the bar over the letters)

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



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

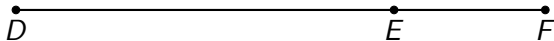
Given $\triangle STU$ with $\overline{ST} \cong \overline{TU}$.



6) Apply the Segment Addition Postulate

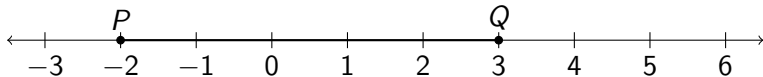
Show your work by marking the diagram and writing an equation.

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.

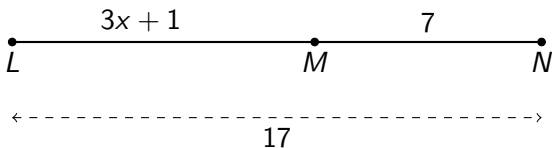


State an equation and the solution.

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 .

