

Do Now:

Simplify each absolute value expression.

1. $|-6|$ 2. $|3.5|$ 3. $-|7-10|$

4. $|-4-2|$ 5. $|-2-(-4)|$ 6. $|-3+12|$

Aug 12-1:10 PM

Do Now (day 2):

Solve each equation.

7. $x+2x-6=6$ 8. $3x+9+5x=81$ 9. $w-2=-4+7w$

Aug 12-1:10 PM

Geometry

Ch. 1 Handout 1.5

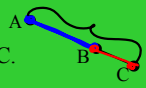
Measuring Segments

Jun 3-1:35 PM

Postulate 1.5 Ruler Postulate
The points of a line can be put into one-to-one correspondence with the real numbers so that the distance between any two points is the absolute value of the difference of the corresponding numbers.

Sum of the parts = whole

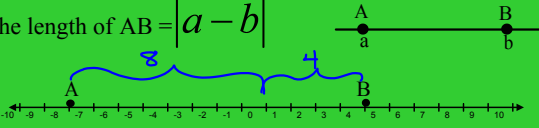
Postulate 1.6 Segment Addition Postulate
If three points A, B, and C are collinear and B is between A and C, then $AB + BC = AC$.



Jun 3-1:36 PM

A **coordinate** is a point's distance and direction from zero on a number line.

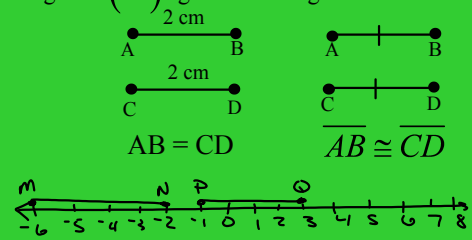
the length of $AB = |a - b|$



$AB = 12$ $AB = |-8 - 4| = |-12|$

Aug 27-4:03 PM

Congruent ($\cong$) segments are segments with the same length.



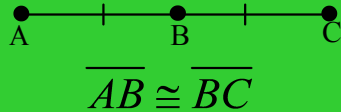
$AB = CD$ $\overline{AB} \cong \overline{CD}$

Are $\overline{MN}$ and $\overline{PQ}$ $\cong$?

$MN = 4$ $PQ = 4$
 $\overline{MN} = \overline{PQ}$ $\overline{MN} \cong \overline{PQ}$

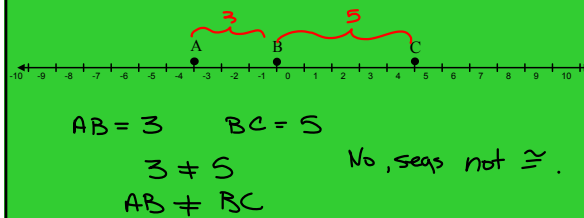
Aug 9-7:23 AM

A midpoint is a point that divides the segment into two congruent segments.



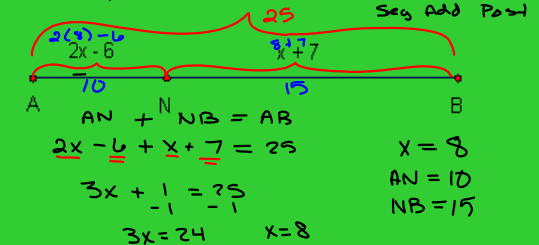
Aug 31-3:16 PM

1. Find AB and BC. Are $\overline{AB}$ and $\overline{BC}$ congruent?



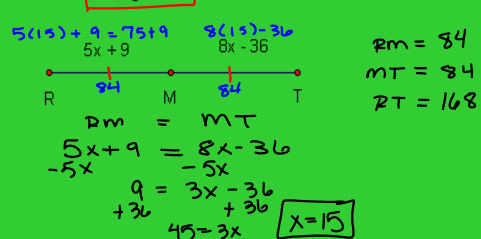
Aug 9-7:25 AM

If $AB = 25$, find the value of x . Then find AN and NB.



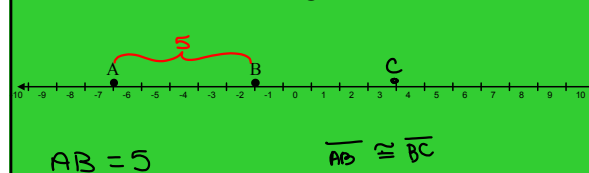
Aug 27-4:09 PM

3. M is the midpoint of $\overline{RT}$. Find RM, MT, and RT.



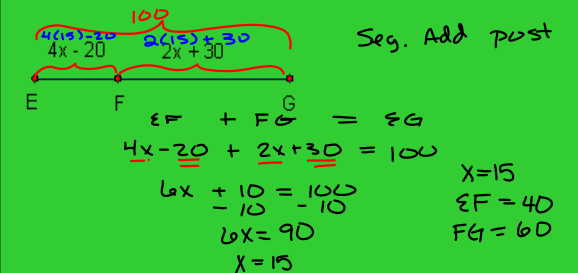
Aug 4-2:56 PM

4. Find AB. Find C, different from A, such that $\overline{AB}$ and $\overline{BC}$ are congruent.



Aug 27-4:10 PM

5. $EG = 100$. Find the value of x . Then find EF and FG.



Aug 4-3:04 PM

6. Z is the midpoint of $\overline{XY}$, and $XY = 27$. Find XZ .

Handwritten notes: Z divides seg in to 2 equal parts

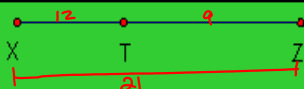


$XZ = 13.5$

$\frac{27}{2} = 13.5$

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7. Use the diagram at the right.

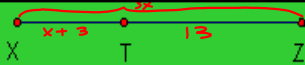


a) If $XT = 12$ and $XZ = 21$, then $TZ =$ 9

$\frac{21}{2} = 10.5$

Aug 4-3:11 PM

7. Use the diagram at the right.



b) If $XZ = 3x$, $XT = x + 3$, and $TZ = 13$, find XZ .

$XT + TZ = XZ$ ← Seg. Add post.

$x + 3 + 13 = 3x$

$x + 16 = 3x$

$-x$

$16 = 2x$

$x = 8$

$XZ = 3x$

$XZ = 3(8)$

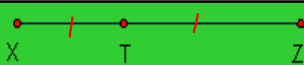
$XZ = 24$

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Sep 2-9:42 AM

7. Use the diagram at the right.



c) Suppose that T is the midpoint of $\overline{XZ}$. If $XT = 2x + 11$ and $XZ = 5x + 8$, find the value of x .

$XT + TZ = XZ$

$2x + 11 + 2x + 11 = 5x + 8$

$4x + 22 = 5x + 8$

$14 = x$

$x = 14$

Aug 4-3:11 PM

Assignment

Day 1: 1.5 Pgs 33-35 1,2,6,8,9
11-13,15,16-19,20,34,37

Day 2: 1.5 Pgs 33-35 10,14,22,
29-32, 35

Aug 4-3:11 PM