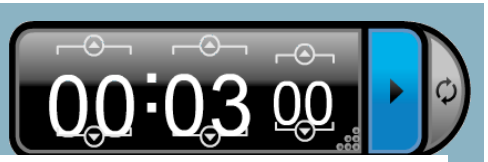
9/17 Do Now



DO NOW Name_____ Date_____ Per_____

Where have you seen angles in your life? List at least 6 places, NOT including math class.

SLG: Construct & name segments, bisect and name angles, and solve problems involving segment and angle addition

CCSS Standard:

9/17 Do Now

Do Now

SLG: Construct & name segments, bisect and name angles, and solve problems involving segment and angle addition
CCSS Standard:

9/17 Assignment sheet

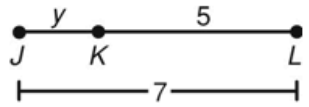
Class _____ Period _____

DATE	CLASSWORK ASSIGNMENT	HOMEWORK ASSIGNMENT
9/17	Copying Segments & Bisecting Angles #1-12+practice due 9/17	Copying Segments & Bisecting Angles 6 construction due 9/18
9/18	due	due
9/19	due	due
9/20	due	due
9/21	due	due

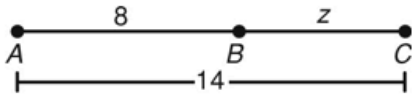
SLG: Construct & name segments, bisect and name angles, and solve problems involving segment and angle addition

CCSS Standard:

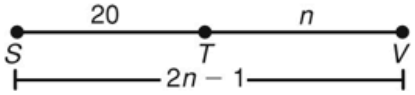
9/17 HW Check & Questions

7. 

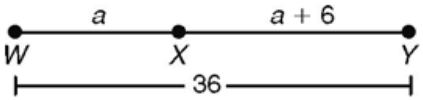
Find *JK*. 2

8. 

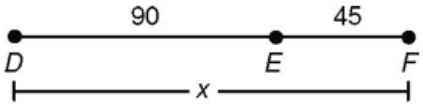
Find *BC*. 6

9. 

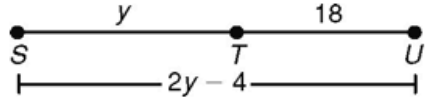
Find *SV*. 41

10. 

Find *XY*. 21

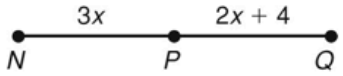
11. 

Find *DF*. 135

12. 

Find *ST*. 22

The midpoint of a segment separates the segment into two congruent segments.
In the figure, *P* is the midpoint of $\overline{NQ}$.



13. $\overline{PQ}$ is congruent to $\overline{NP}$.

14. What is the value of *x*? 4

15. Find *NP*, *PQ*, and *NQ*. NP = PQ = 12, NQ = 24

CCSS Standard:

9/17 Copy a Line Segment

1) What do we use a compass for?

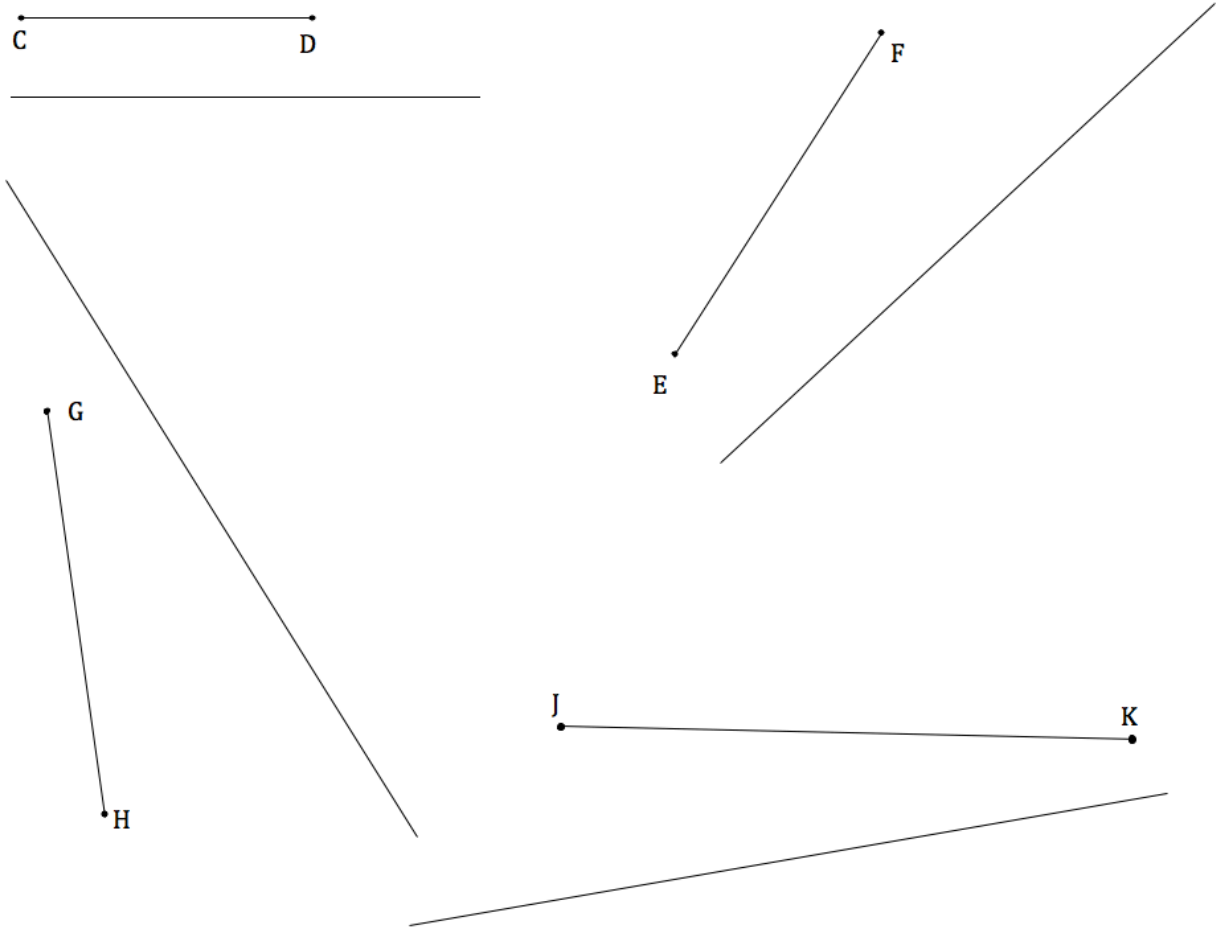
2) How can we use a compass to copy segment AB?

3) Use the longer unmarked line segment below to copy line segment AB. Label the new line segment A'B'. This is read "A prime B prime" and is a way to show that the new segment is a copy of the original image.

CCSS Standard:

9/17 Practice

4) Make a copy of each segment below:

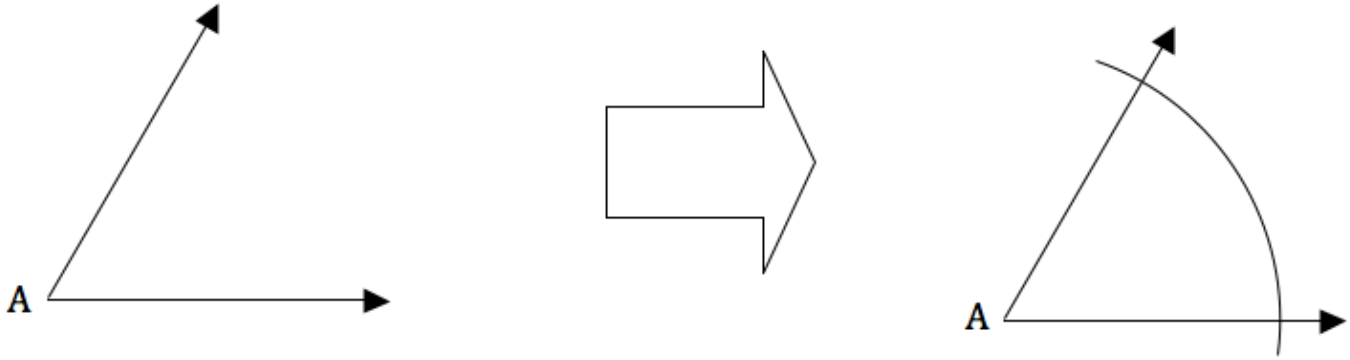


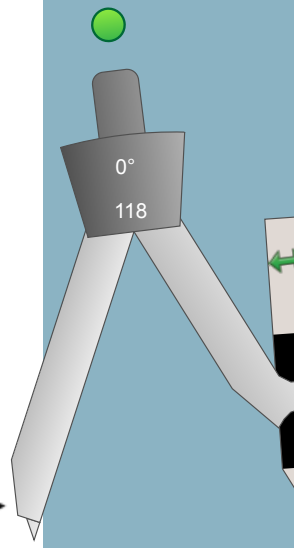
CCSS Standard:

9/17 Bisect Angles Lesson

5) How can we apply copying a segment to bisecting an angle?

6) The first step in bisecting an angle is to make an arc with the pivot point on the **vertex**:





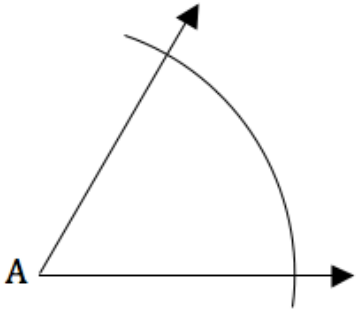
7) In the diagram above, label the new intersections B and C.

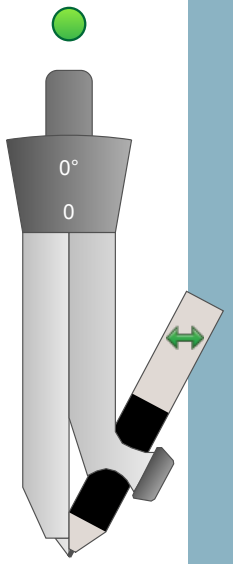
8) Because we made an arc with a compass, what do we know about segments AB and AC?

CCSS Standard:

9/17 Bisect Angles Lesson

9) The second step in bisecting an angle is to make arcs of with the same radius measure from points B and C that intersect inside the angle. Complete this construction and label the new point formed by the intersection D.





10) What do we know about the distance from B to D and C to D?

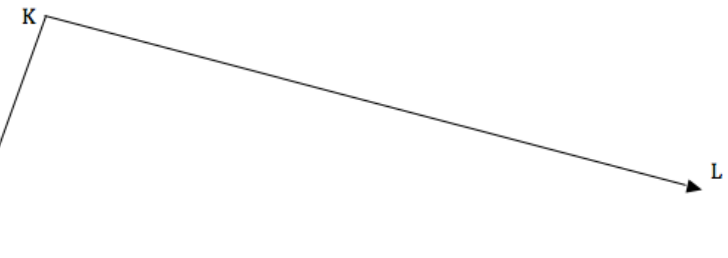
11) This makes point D halfway between the sides of angle BAC. Connecting points A and D with a ray shows us ALL of the points that are halfway between the sides of the angle which makes ray AD the angle bisector for angle BAC.

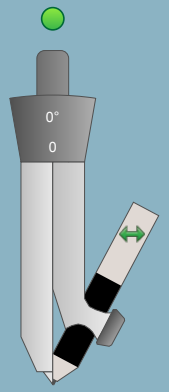
12) Bisect the angles on the angle bisector sheet.

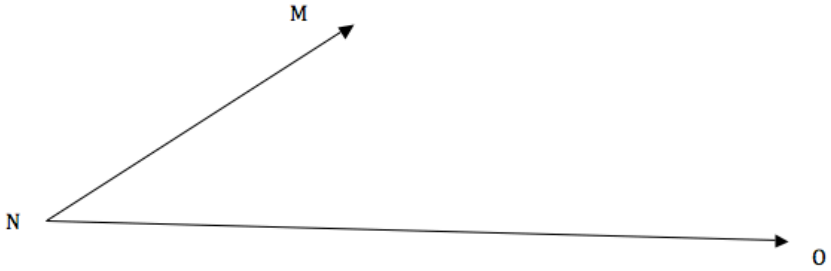
CCSS Standard:

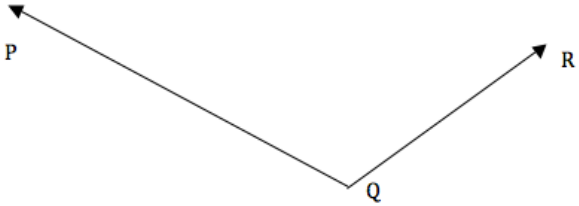
9/17 Bisect Angles Practice

1. Bisect each angle below.



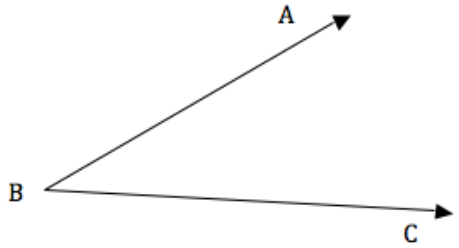


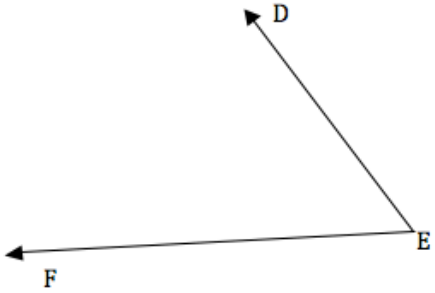


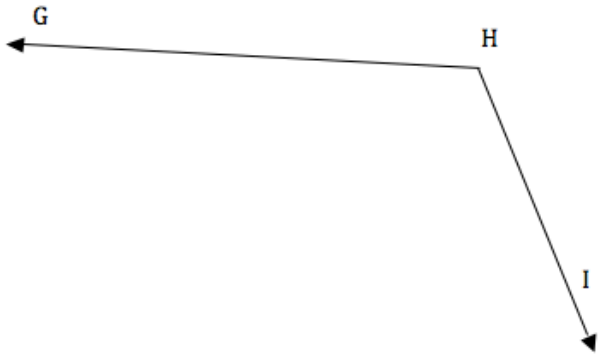


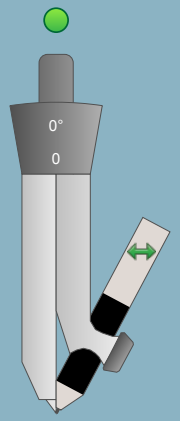
9/17 Bisect Angles Practice

1. Bisect each angle below.





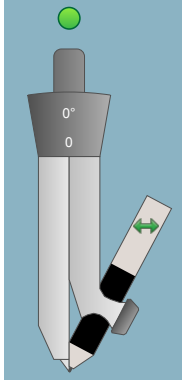


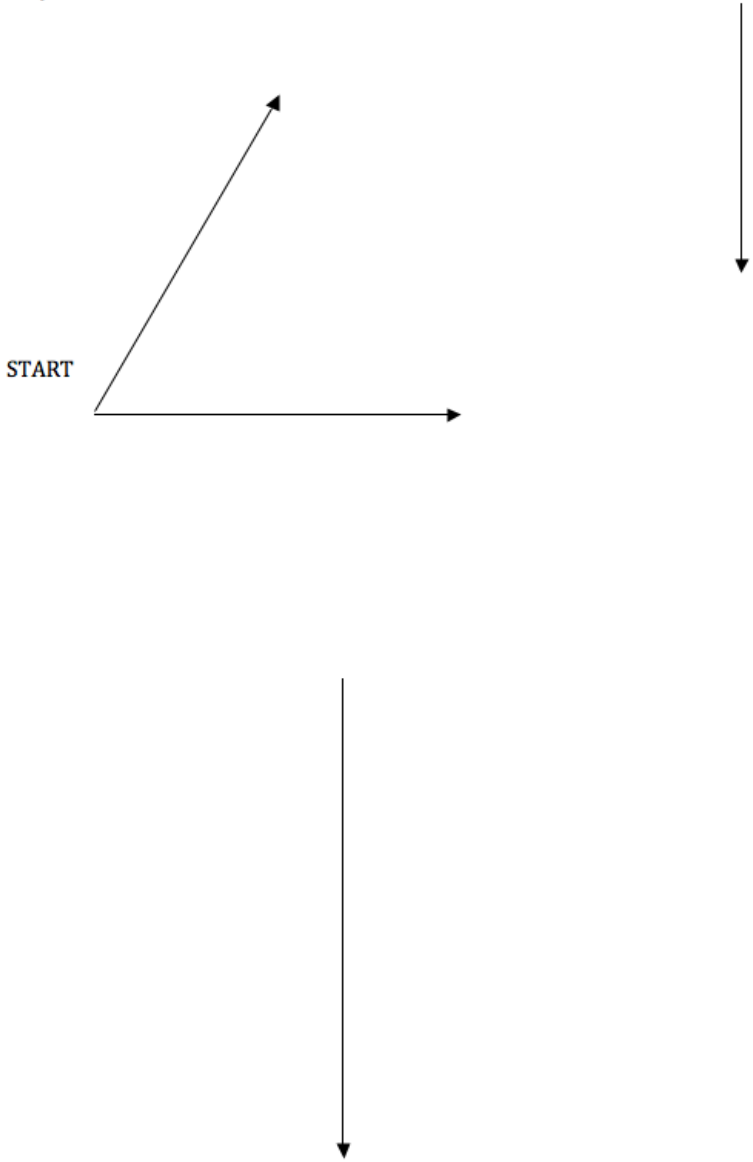


9/17 Bisect Angles Practice

Worktime

Complete the angle maze by bisecting the first angle. Where the bisector hits a line segment, bisect one of the new angles until you reach the end.

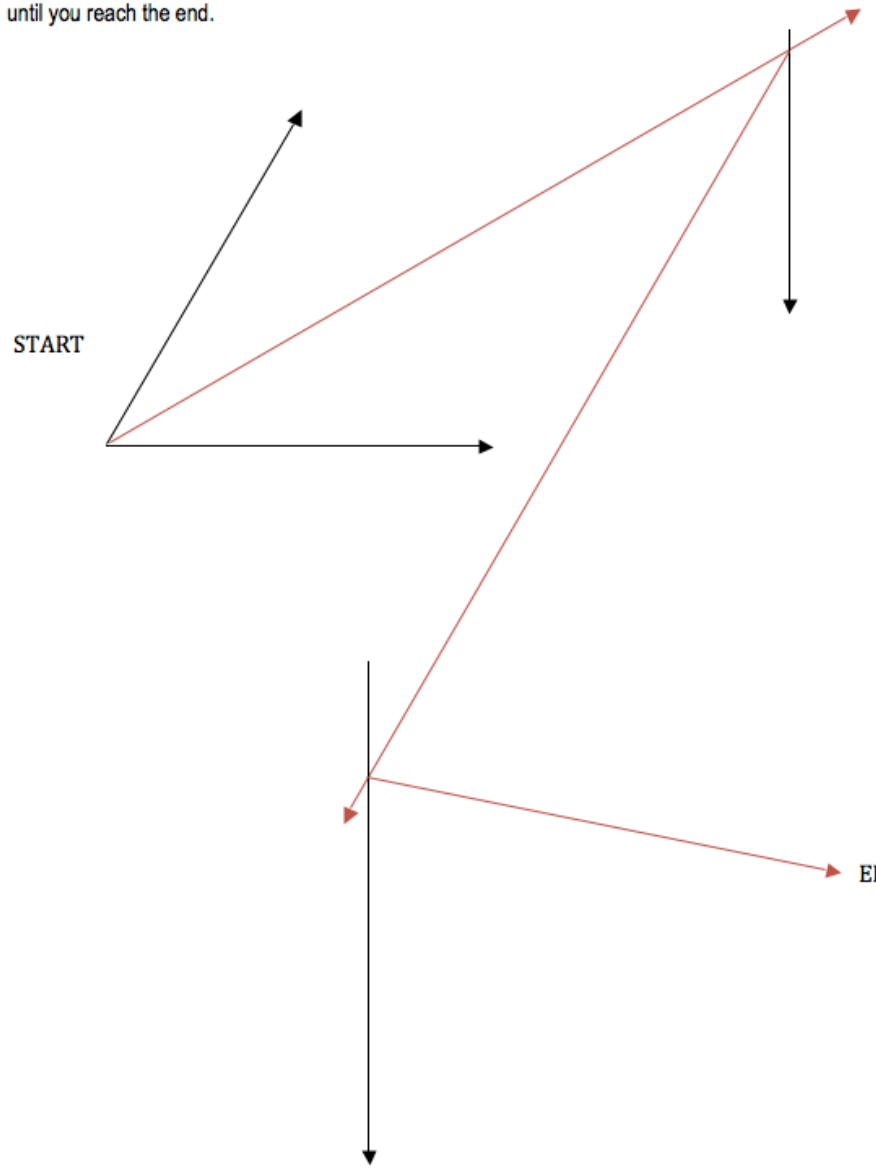


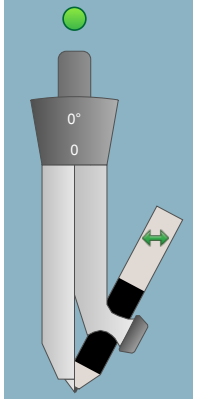


9/17 Bisect Angles Practice

Worktime: Bisect Angles KEY

Complete the angle maze by bisecting the first angle. Where the bisector hits a line segment, bisect one of the new angles until you reach the end.





9/17 Geometry PRIDE

Names & accomplishments

CCSS Standard:

9/17 Homework

3 Copy a segment
3 Bisect an angle

YOU NEED A COMPASS FOR THIS HOMEWORK.
GET ONE TODAY IF YOU DON'T HAVE ONE.

CCSS Standard:

9/17 Ticket Out the Door

Ticket out the door Name_____ Date_____ Per_____

☹ 1 2 3 4 5 ☺ because:

Today I learned about _____.
To do this I need to _____.
One question I still have is _____.

CCSS Standard:

9/17 Quiz

Face desks forward and clear desk except for

Communication of any sort = ZERO

RAISE YOUR HAND silently if you need something

CCSS Standard:

9/17

Test

Face desks forward and clear desk except for

Communication of any sort = ZERO

RAISE YOUR HAND silently if you need something

CCSS Standard: