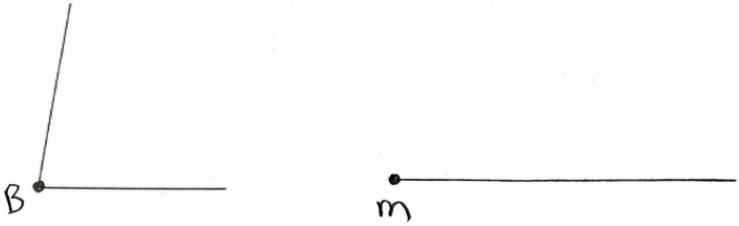


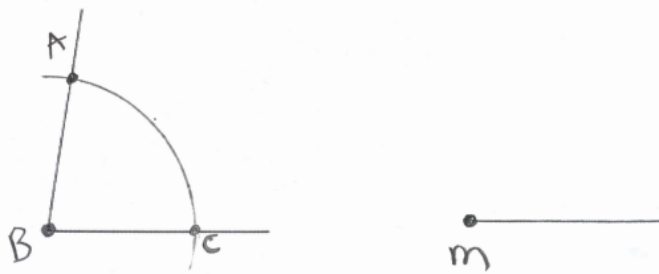
CONSTRUCTING CONGRUENT ANGLES STEPS

Step 1: Draw a new line with endpoint m .



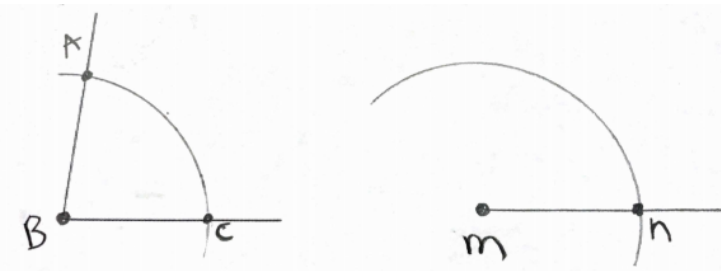
Step 2: Place your compass point on the vertex of the original angle.

- **Carefully swipe across your angle** with the pencil, keeping the point of the compass on the vertex.
- Label the intersections of the swipe and angle points **A** and **C**
- DO NOT CHANGE YOUR COMPASS SETTINGS! (Do not open or close it)

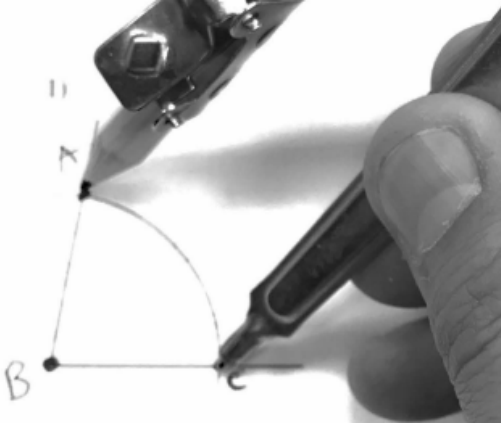


Step 3: Using the same settings for your compass as step 2, place the point of the compass on point m on your line from step 1.

- Make a swipe a little longer than the one from step 2.
- Label the intersection of the swipe and line as n

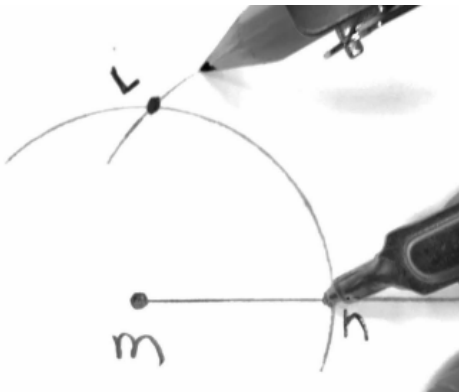


Step 4: Open your compass point and pencil from point **A** to point **C**.

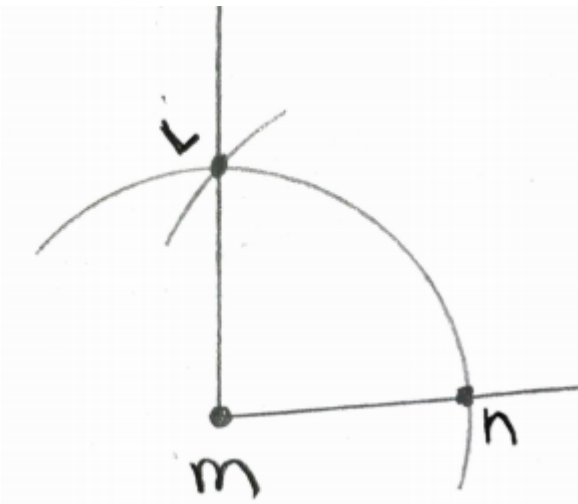


Step 5: USING THE SAME COMPASS SETTINGS AS STEP 4, place the point of the compass on **n**.

- Swipe your pencil to intersect your swipe from Step 3.
- Label the intersection point **L**.



Step 6: Connect **m** to **L** using a straight edge.



Step 7: Measure each angle to check congruence.