**Geometry Lesson 1-2 Objective: Students will take measurements with a ruler, a compass, and a protractor; students will also copy segments and angles.**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**[1st] Fill in the missing**

**letters for this unit D \_\_ G \_\_ \_\_ \_\_**

**of measure:**

**GEOMETRY NOTES 1-2: Using a Ruler, Compass and Protractor**

**is inch long. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

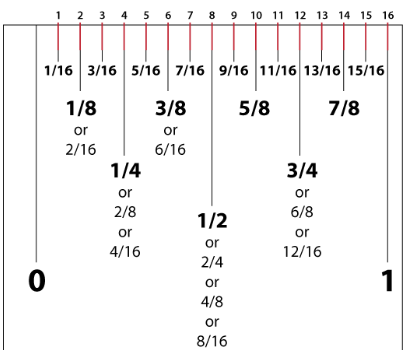
**Y Z**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**A B**

**[2nd] How long is ? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**C D**

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**[3rd] How long is**

**[4th] How many increments**

**are there from 0 to 1 inch?**

**How does this affect the way**

**we measure with inches?**

**[5th] With your own ruler,**

**draw a segment that is**

**2 inches long.**

**[6th] With your ruler, draw a**

**segment that is 1 inches long.**

**[7th] Use your compass to copy , , and .**

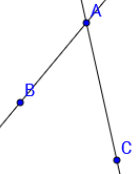
**For each segment, center your EXAMPLE: Original Copy**

**compass at one endpoint and**

**set the pencil point on the other**

**endpoint; then transfer that**

**distance to your own drawing area.**

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**[8th] Copy / BAC: NOTICE that AB < AC.**

To do this, **first** plot a point on your paper. Call it A. (This will be

the vertex of your angle). **Second**, use your compass to measure

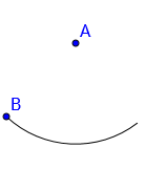
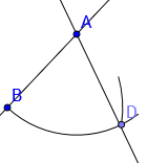
the distance on this sheet from A to B. Copy onto your paper.

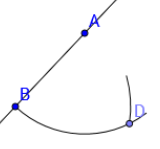
Make fairly long. **Third**, with your compass, measure the

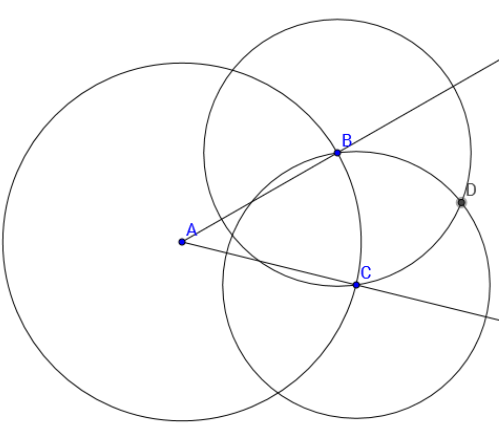
Distance from B to line . Mark this distance on your drawing.

Label D where the two arcs meet. Then connect A and D.

FIRST SECOND THIRD FOURTH





**Examine circles A,B, and C.**

**B and C are on circle A.**

**C is on circle B and B**

**is on circle C.**

**D is on circles B and C.**

**[9th] Which is closer to A,**

**B or C? \*\*Explain what**

**this means for and .**

**[10th] Which is closer to D,**

**B or C? \*\*Explain what this**

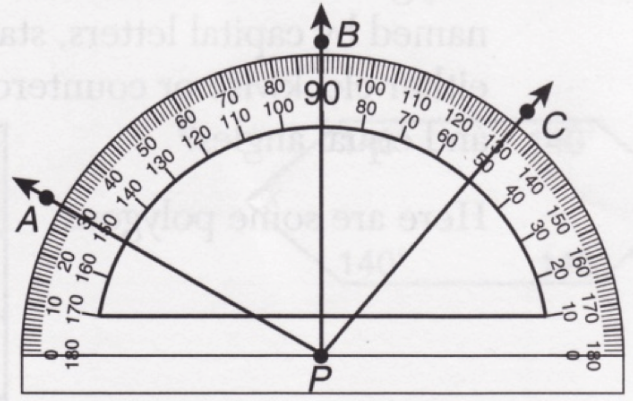
**means if you draw and .**

**[11th] If you draw , which angle**

**will be wider, / BAD or / CAD?**

**🡪We can use the above construction**

**to do what with / BAC?**

**[12th] Find the measure of**

**each angle in degrees:**

**/ APB**

**/ CPB**

**/ APC**