**Geometry U 1-2 Welcome to Measurement Put all work and responses on another sheet.**



1] On your paper, plot

 a point. Call it A.

 Next, center your compass

 at A and draw a set of points

 that form an arc. (such as $\hat{BC}$—see the example.)

 \*Explain what all the points on $\hat{BC}$ have in common.



2] On your paper, plot a point. Call it D.

 Next, center your compass at D and set

 the radius to 1 ¼ inches.

 DE = 1 ¼ “. (Go half way between DE = 1 ¼ “

 1 inch and 1 ½ inches.) \*\*This circle is too small.

 Make yours the correct size.

 \*\*Explain what all the points on circle D have in common.

3] Use your compass to measure $\overbar{FG}$ (segment FG).

 To do this, put the point of your compass on F and

 the pencil point on G.

 Next, ON YOUR PAPER, plot a point. Call it F.

 Then center your compass—set to the length of $\overbar{FG}$—

 on point F on your paper and mark off the length of $\overbar{FG} $on your paper.

 Finally, on your paper, connect F to the compass marking, so that you have a copy segment of $\overbar{FG}$.

 \*Is your copy of $\overbar{FG}$ the same length as the original on the worksheet? Explain what measurement tool you used, to guarantee both are the same length.

4] Use your compass to copy each segment below on your paper:



5] Use your ruler and find HI and JK (the length of each segment in problem 4). Find each length to the nearest $\frac{1}{16}$ of an inch.

6] Use your protractor and find the measure, in degrees,

 of / ABC. Also name the vertex of the angle.

7] On your paper, make a copy of / EDF. original angle

 To do this, **first** plot a point on your paper.

 Call it D. (This will be the vertex of your angle).

 **Second**, use your compass to measure the distance

 on this worksheet from D to $\hat{EF}$. Copy $\hat{EF}$ onto

 your paper. \*Make sure the distance from D to E

 is the same as the distance from D to F.

 **Third**, with your compass, measure the distance

 EF on this sheet: copy that distance onto your paper.

 Your copy should progress this way:

1st 2nd 3rd





**Finally**, connect D and F.

8] Measure each angle below to the nearest degree:

[a] [b]



9] REVIEW your NOTES.

 If you don’t review your notes, you can’t have any pudding. How can you have any pudding if you don’t review your notes?