DO NOW

Hints for using a compass:

- Be sure to use a sharpened pencil
- If your compass requires that you insert a pencil, use a small pencil (short) as it will make it easier to balance the compass.
- Be sure to adjust your compass so that the leg with the sharp point and the leg with the pencil lead are the same length. Close the compass to see if the two legs are the same length.
- Place several sheets of paper under your worksheet. Allowing the compass point to pierce the papers will help stabilize the compass and prevent it from slipping.
- Hold the compass lightly and try to keep your wrist flexible.
- If you have trouble moving your wrist when drawing circles, try rotating the paper under the compass.
- Try to maintain a constant, but light, pressure on the compass. Do not press down too hard on the paper.

Segment AB: set consisting of point A, B and all points on the line between A and B

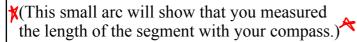


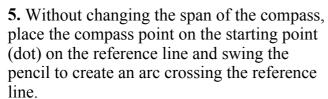
Radius: segment from the center of a circle to any point on a circle

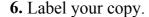
<u>Circle</u>: set of all points that are distance *r* (radius) from point *C* (center of circle)

Copying a Line Segment

- **1.** Using a straightedge, draw a reference line, if one is not provided.
- **2.** Draw a dot on the reference line to mark your starting point for the construction.
- **3.** Place the point of the compass on point *A* on the given figure.
- **4.** Stretch the compass so that the pencil is exactly on *B*. Make a small arc through *B*.











Constructing an Equilateral Triangle

- **1.** Place your compass point on *A* and measure the distance to point *B*.
- **2.** Swing an arc of this size above (or below) the segment.
- **3.** Without changing the span on the compass, place the compass point on *B* and swing the same arc, intersecting with the first arc.
- **4.** Label the point of intersection as the third vertex of the equilateral triangle.
- **5.** Draw the triangle by connecting the three vertices using a straightedge

