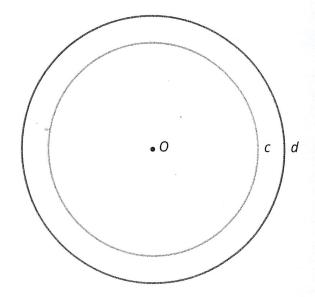
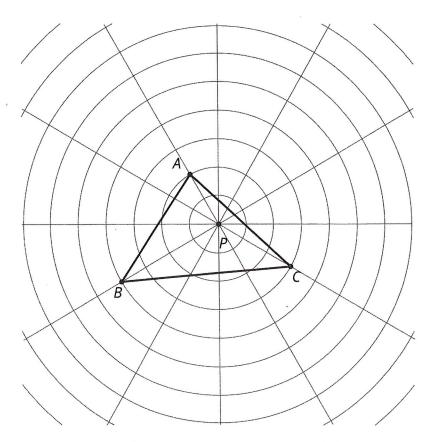
Lesson 2 Practice Problems

- 1. Here are Circles c and d. Point O is the center of dilation, and the dilation takes Circle c to Circle d.
 - a. Plot a point on Circle c. Label the point P. Plot where P goes when the dilation is applied.
 - b. Plot a point on Circle d. Label the point Q. Plot a point that the dilation takes to Q.



2. Here is triangle ABC.

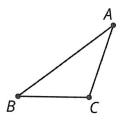


- a. Dilate each vertex of triangle ABC using P as the center of dilation and a scale factor of 2. Draw the triangle connecting the three new points.
- b. Dilate each vertex of triangle ABC using P as the center of dilation and a scale factor of $\frac{1}{2}$. Draw the triangle connecting the three new points.
- c. Measure the longest side of each of the three triangles. What do you notice?

d. Measure the angles of each triangle. What do you notice?

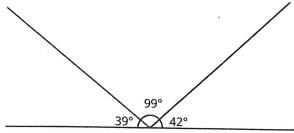
3.

Describe a rigid transformation that you could use to show the polygons are congruent.



D F F

4. The line has been partitioned into three angles.



Is there a triangle with these three angle measures? Explain.