Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Getting to know Regular Polygons!**

1. True or False: You can inscribe a regular polygon of any number of sides in a circle. (Write the page number \_\_\_\_\_ where the answer was found.)

2. What is the definition for the **center of a regular polygon**?

3. What is the definition for the **radius of a regular polygon**?

4. What is the definition for **the central angle of a regular polygon**?

5. What is the measure of the central angle of a regular **nonagon**? (A **nonagon** is a polygon with 9 sides.)

6. What is the definition for the **apothem of a regular polygon**?

A

7. Below is a regular pentagon inscribed in a circle. Label or create the…

Center of the regular pentagon: *O*

Radius: *OA*, *OB*, *OC*, *OD*, and *OE*

E

B

Find the measurement of central angle:

Draw an apothem: *OX*

C

D

8. What is theorem 11-6?