

**Formulas:**

Circle Circumference:  $C = 2 \cdot \pi \cdot r$

Circle Area:  $A = \pi \cdot r^2$

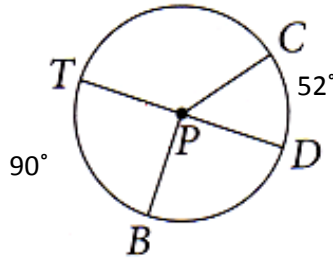
Arc length =  $\frac{\angle}{360} \cdot 2 \cdot \pi \cdot r$

Sector area =  $\frac{\angle}{360} \cdot \pi \cdot r^2$

1. What is the degree measure of  $\widehat{TC}$ ?

ANSWER: \_\_\_\_\_

Use this circle to answer #1-2



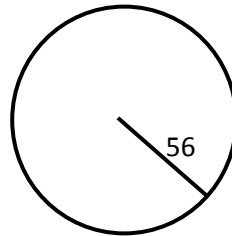
2. What is the degree measure of  $\widehat{CDT}$ ?

ANSWER: \_\_\_\_\_

3. What is the Circumference of this circle?

ANSWER: \_\_\_\_\_  $\pi$

Use this circle to answer #3-4



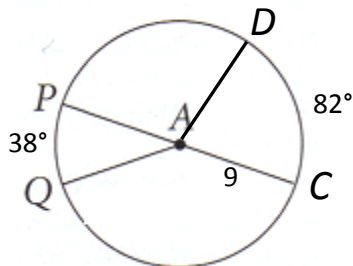
4. What is the Area of this circle?

ANSWER: \_\_\_\_\_  $\pi$

5. What is the arc length of  $\widehat{PQC}$ ?

ANSWER: \_\_\_\_\_  $\pi$

Use this circle to answer #5-6



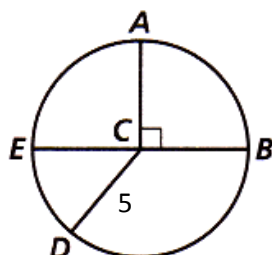
6. What is the arc length of  $\widehat{PD}$ ?

ANSWER: \_\_\_\_\_  $\pi$

7. What is the area of sector  $\widehat{AB}$ ?

ANSWER: \_\_\_\_\_  $\pi$

Use this circle to answer #7-8



8. What is the area of sector  $\widehat{BDA}$ ?

ANSWER: \_\_\_\_\_  $\pi$

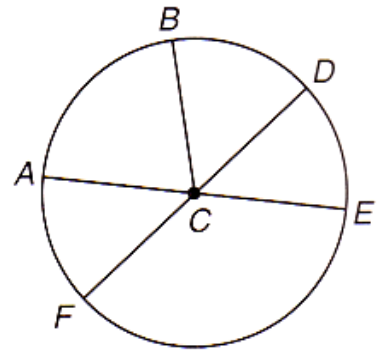
9.  $\widehat{AFE}$  is an example of a \_\_\_\_\_.

10.  $\overline{CB}$  is an example of a \_\_\_\_\_.

11.  $\widehat{AEF}$  is an example of a \_\_\_\_\_.

12.  $\overline{AE}$  is an example of a \_\_\_\_\_.

13.  $\widehat{FA}$  is an example of a \_\_\_\_\_.



14. The Pistons logo above has a Circumference of  $24\pi$ . What is the radius of the logo?

Answer: \_\_\_\_\_

15.) What is the Area of the Pistons logo?

Answer: \_\_\_\_\_

**BONUS:** A regular Hexagon is inscribed in a Circle. Find the shaded region, given the apothem of 24 cm. SHOW STEPS and WORK VERY CLEARLY!

