

**Formulas:**

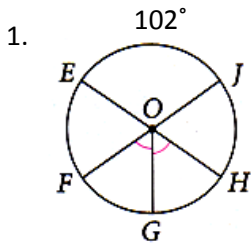
Circle Circumference:  $C = 2 \cdot \pi \cdot r$

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

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

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

Find each arc measure in the circle below.



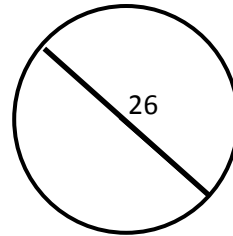
$\widehat{EG} =$  \_\_\_\_\_

$\widehat{EJH} =$  \_\_\_\_\_

$\widehat{JFH} =$  \_\_\_\_\_

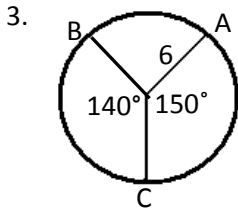
$\widehat{GHE} =$  \_\_\_\_\_

Find the area and circumference of the circle in terms of  $\pi$ .



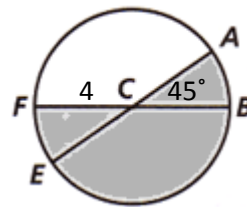
$C =$  \_\_\_\_\_  $A =$  \_\_\_\_\_

Find the arc length in terms of  $\pi$ .

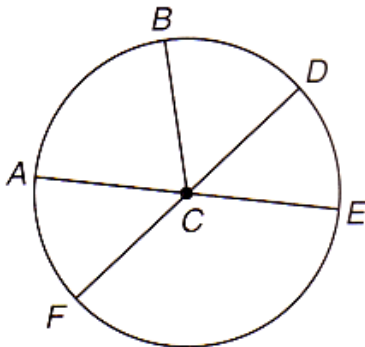


$\widehat{AB} =$  \_\_\_\_\_

Find the area of the shaded sector in terms of  $\pi$ .



Sector Area  $\widehat{FBA} =$  \_\_\_\_\_



5.  $\widehat{AD}$  is an example of a \_\_\_\_\_.

6.  $\widehat{BFE}$  is an example of a \_\_\_\_\_.

7.  $\widehat{ADE}$  is an example of a \_\_\_\_\_.

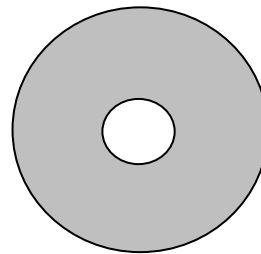
8.  $\overline{AE}$  is an example of a \_\_\_\_\_.

9.  $\overline{CF}$  is an example of a \_\_\_\_\_.

10.  $\widehat{AF}$  &  $\widehat{DE}$  are \_\_\_\_\_ to each other.

11. What is the area of the writable section of the CD pictured (shaded):

The radius of the hole (small circle) is .5 cm, the whole CD has a radius of 6cm.



12. A Subwoofer has a circumference of 47" around. What is its diameter, rounded to the nearest whole inch?

13.) The following is a survey of Ha Poong's yard. Ha Poong wants to know what the area of his lawn is where grass grows. No grass grows where trees grow or where other objects lie on the ground. Use your smarts to figure out the total area of the grass! [note: survey is NOT drawn to scale!] [Hint: Convert everything to feet before calculating!]

