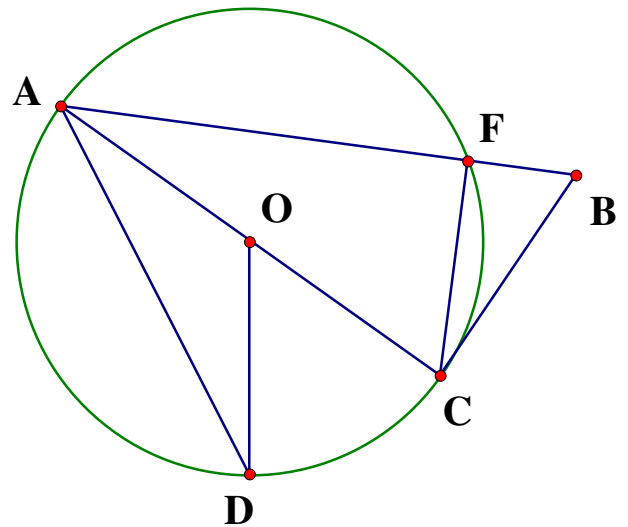


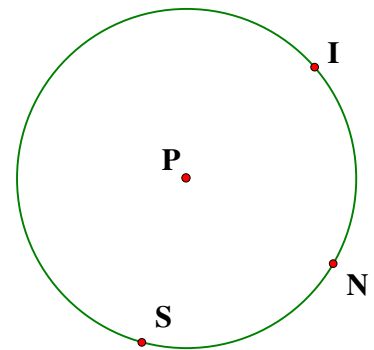
Sample Circle Quiz

Find the measure of each missing angle or arc in the figure at the right. O is the center of the circle, $m\angle COD = 38^\circ$, $m\widehat{CF} = 56^\circ$ and \overline{BC} is tangent to $\odot O$.



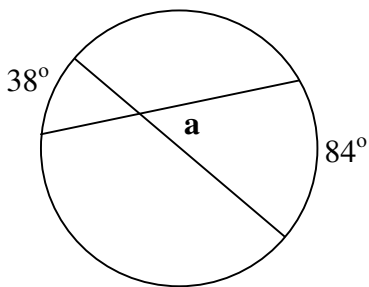
- | | |
|----------------------|-----------------------|
| 1) $m\angle CAD =$ | 5) $m\angle FCA =$ |
| 2) $m\angle BCA =$ | 6) $m\widehat{DAF} =$ |
| 3) $m\angle CAB =$ | 7) $m\angle ABC =$ |
| 4) $m\widehat{CD} =$ | |

Circle P at right has a radius of 8m, $m\widehat{IN} = 90^\circ$ and $m\widehat{SN} = 70^\circ$. Find the exact value for each of the following:

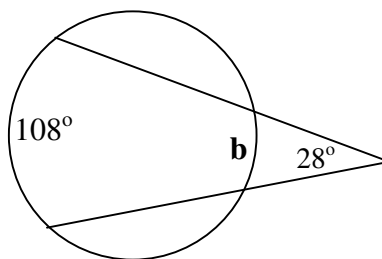


- 8) Diameter of $\odot P =$
- 9) Circumference of $\odot P =$
- 10) Length of $\widehat{IN} =$
- 11) Length of $\widehat{SIN} =$

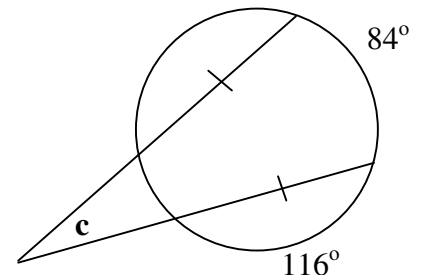
12) $a =$



13) $b =$



14) $c =$



15) Is 3.14 pi? Explain in complete sentences.

Answers provided below.....

ANSWERS:

- 1) 19°
- 2) 90°
- 3) 28°
- 4) 38°
- 5) 62°
- 6) 266°
- 7) 62°
- 8) 16m
- 9) 16π
- 10) $(90/360)16\pi = 4\pi$
- 11) $(290/360)16\pi = 464\pi/36 = 116\pi/9$
- 12) 61°
- 13) 52°
- 14) 20°
- 15) No!!!! (Do your own research to explain why!!! Be sure to find out what "pi" actually is!!!!)