## **Angles In Circles**

## Part I - Central Angles

The measure of a central angle is \_\_\_\_\_\_ the measure or the intercepted arc created by the angle.

The total number of degrees in a circle is \_\_\_\_\_\_.

The total number of degrees in a semicircle is \_\_\_\_\_\_.

Use the picture of OC at right for the example questions. Tell whether each arc is a major arc, minor arc, or a semicircle. Then, find the degree measure of each arc. BD is a diameter and CD is an angle bisector.



Ex 5:  $\widehat{mBD}$ 

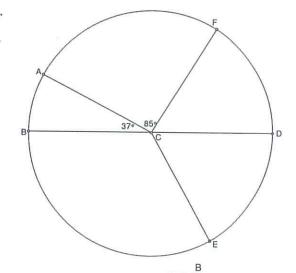
Ex 2: 
$$\widehat{mAF}$$

Ex 6:  $\widehat{mFD}$ 

Ex 3: 
$$\widehat{mBE}$$

Ex 7:  $\widehat{mDAE}$ 

Ex 4: 
$$\widehat{mFBE}$$



Use the picture of ⊙A at right for questions 1-10. CF is a diameter and AE is an angle bisector. Tell whether each arc is a major arc, minor arc, or a semi-circle. Then, find the degree measure of each arc.



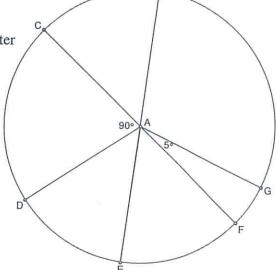
6. *mCE* 

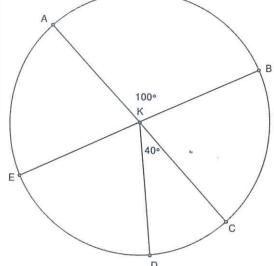
7. mCFE

8. *mDC* 

9. mFG

10. mED





Use the picture at left to answer questions 11 -20.  $\overline{AC}$  and  $\overline{BE}$ are diameters of ⊙K. Tell whether each arc is a major arc, minor arc, or a semi-circle. Then, find the degree measure of each arc.

11. mBC

(16,) mAKD

(12). mBKC

17. mABC

13) mAKE

(18) mDKB

14. mED

15. mCD

19. mCD

20. mACE

Arc Length and Sector Area NOTES