BASIC REVIEW:

- A circle has 360 degrees
- A semicircle has 180 degrees
- Vertical angles are equal
- Linear pairs are supplementary

Central Angles	An angle whose vertex is at the **center** of the circle Angle = Arc	

Examples:

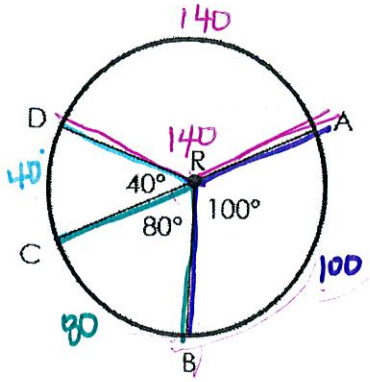
$m\angle AOB = 96°$

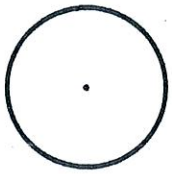
$m\angle AOE = 84°$

$\overset{\frown}{AE}$

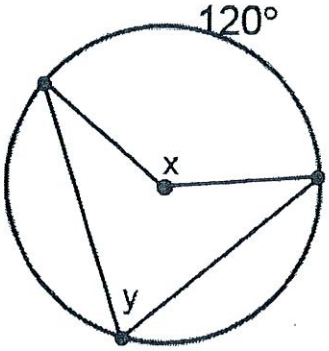
EB = Diameter

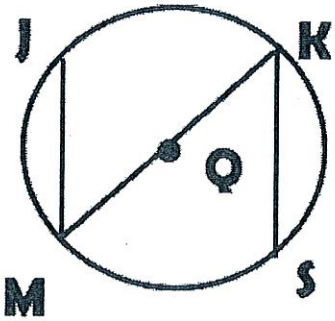
$m\overset{\frown}{BCE} = 180°$



Inscribed Angles	An angle whose vertex is **on** the **edge** of the circle	

Examples:

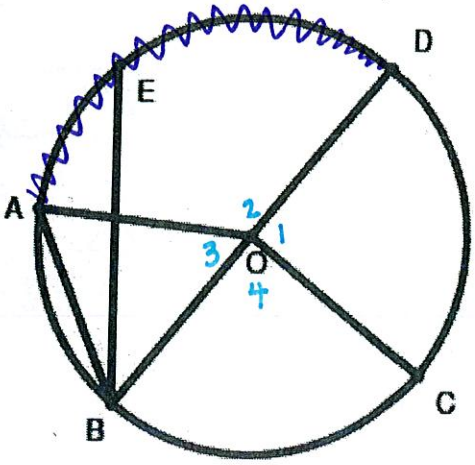




Name: _____ Date: _____

Central Angles

1. Identify and name each of the following from ⊙O. Be sure to use the correct notation. BD is a diameter.



∠DOC a. Two different central angles
∠BOC

$\overset{\frown}{CB}$ b. A minor arc → less 180°

$\overset{\frown}{BCA}$ c. A major arc → more 180°

$\overset{\frown}{BCD}$ d. A semicircle → = 180°

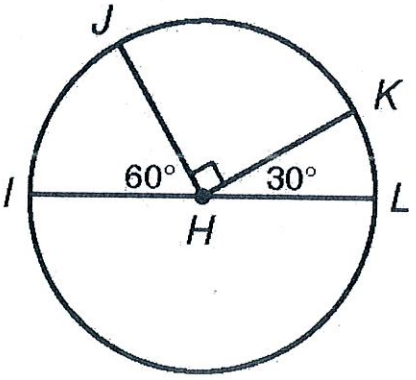
$\overline{EB}$ e. Two different chords
$\overline{AB}$

Radii → $\overline{AO}$ $\overline{CO}$
$\overline{BO}$ $\overline{DO}$

∠AOD f. The central angle subtended by $\overset{\frown}{AD}$

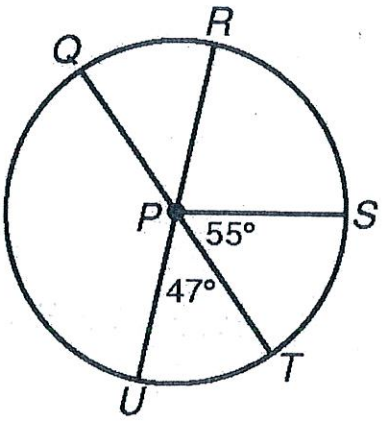
Find each measure.

IL is a diameter.



2. $m\overset{\frown}{LK}$ _____, $m\overset{\frown}{IK}$ _____

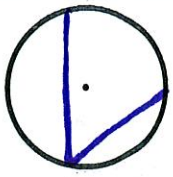
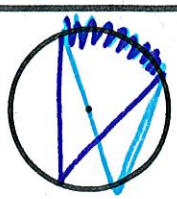
RU & QT are diameters.



3. $m\overset{\frown}{QS}$ _____, $m\overset{\frown}{RQT}$ _____

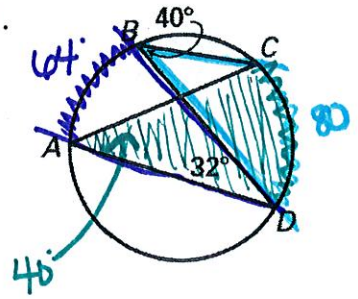
Name: _____ Date: _____

Inscribed Angles

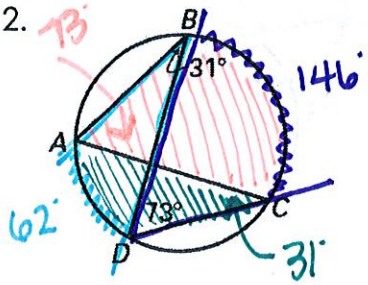
vertex is on the **center** of the circle	Central Angle Angle = Arc	
vertex is on the **edge** of the circle	Inscribed Angle Angle = $\frac{Arc}{2}$ Arc = 2 Angle	
If two angles intercept the same arc…	Angles are $\cong$	

Find the measure of angle A and angle C.

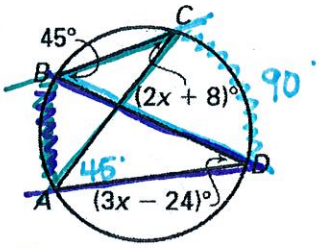
1.



2.

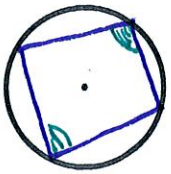


3.



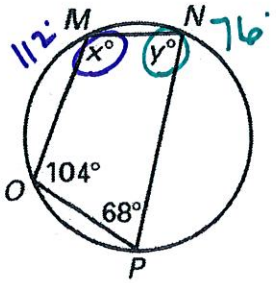
$3x - 24 = 2x + 8$

$x = 32$

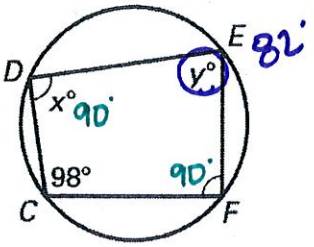
If a quadrilateral is inscribed in a circle…	Opp ∠'s are supp. = 180°	

Solve for x and y.

4.



5.



6.