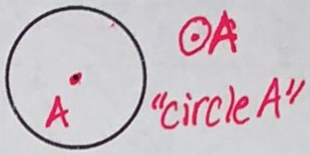
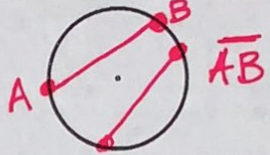


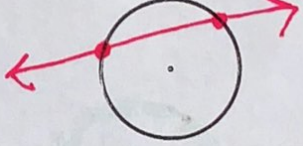
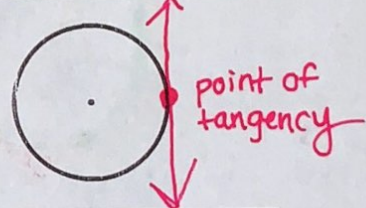
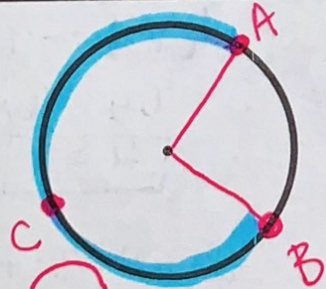
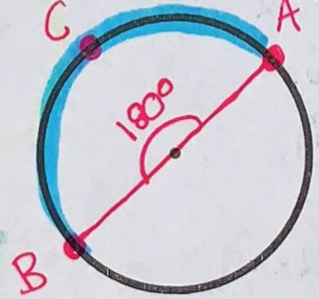
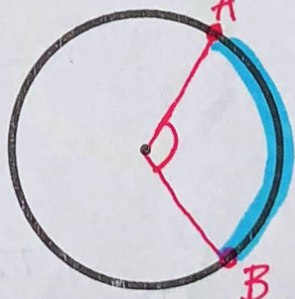


Name: _____ Date: _____

Vocabulary, Central Angles & Inscribed Angles

<p>Circle</p>	<p>set of all points equidistant from a given point called the center</p>	
<p>Chord</p>	<p>a segment whose endpoints are on the circle</p>	
<p>Diameter $d = 2r$</p>	<p>distance across the circle through its center longest chord</p>	
<p>Radius $r = \frac{1}{2}d$</p>	<p>distance from the center to point on circle 1/2 diameter</p>	
<p>Secant</p>	<p>a line that intersects the circle at exactly TWO points</p>	
<p>Tangent</p> <p>Point of Tangency</p>	<p>a line that intersects the circle exactly ONE time</p> <p>where the tangent line intersects the circle</p>	

Major Arc	Semicircle	Minor Arc
 <p>ACB use 3 letters * greater than 180°</p>	 <p>ACB * uses 3 letters</p>	 <p>* less than 180° use two letters AB</p>

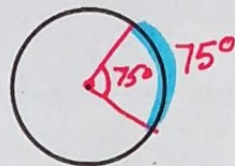
BASIC REVIEW:

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

Central Angles

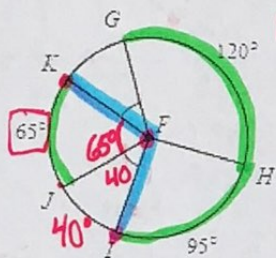
An angle whose vertex is at the **center** of the circle

$m \text{Arc} = m \text{Central Angle}$



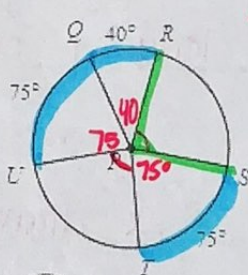
Find the measure of the arc or central angle indicated. Assume that lines which appear to be diameters are actual diameters.

1) $m\angle IFK$



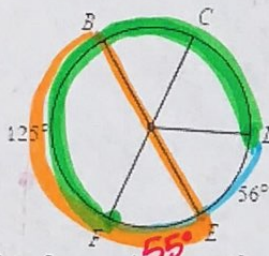
$120 + 95 + 65 = 280$
 $360 - 280 = 80$
 $80 / 2 = 40$
 $\angle IFK = 105^\circ$

2) $m\angle RPS$



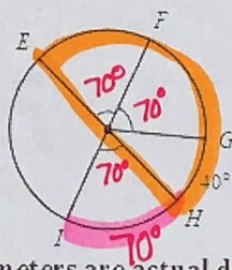
$40 + 75 + 75 = 190$
 $360 - 190 = 170$
 $170 / 2 = 85^\circ$

3) $m\widehat{FBD}$



$360 - 111 = 249^\circ$

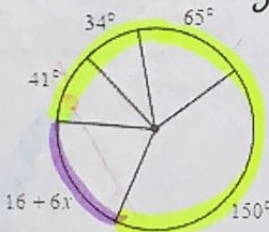
4) $m\widehat{HI}$



$\widehat{HI} = 70^\circ$

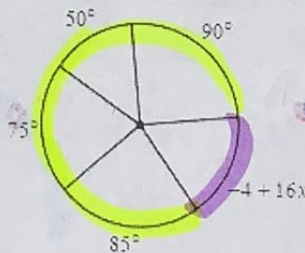
Solve for x . Assume that lines which appear to be diameters are actual diameters.

5)



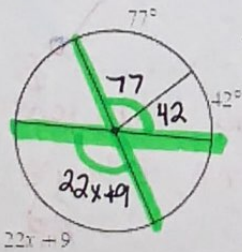
$360 - 290 = 70$
 $70 = 16 + 6x$
 $54 = 6x$
 $x = 9$

6)



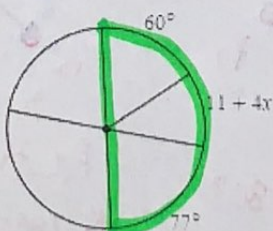
$360 - 300 = 60$
 $60 = -4 + 16x$
 $64 = 16x$
 $4 = x$

7)



$77 + 42 = 22x + 9$
 $119 = 22x + 9$
 $110 = 22x$
 $5 = x$

8)



$60 + 11 + 4x + 77 = 180$
 $148 + 4x = 180$
 $4x = 32$
 $x = 8$