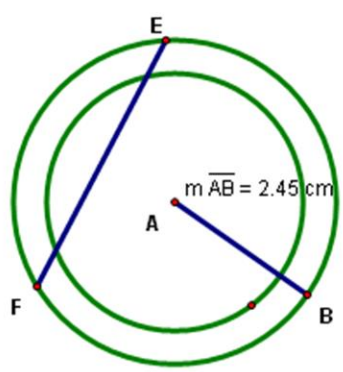
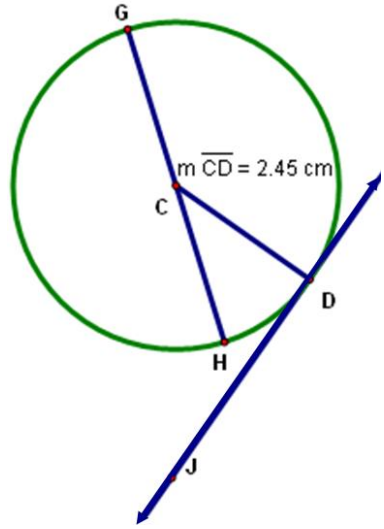
G7A-3 Name _____

Parts of Circles and chord properties

**Check for Understanding:**

1, Using correct symbols, name all:




a. Centers: _____

b. Radii:_____

c Diameters:_____

d. Chords:_____

e. Tangent lines:_____ f. Points of tangency: _____

g. Central Angles: _____ h. Semicircles: _____

i. major arcs:_____ j. minor arcs:_____

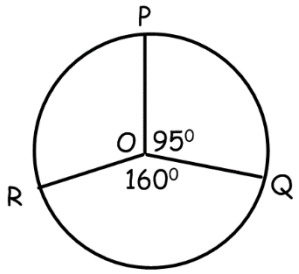
(hint: there are 4) (hint: there are 5)

2. Find the measure of each arc:

a. m$\widehat{PQ}$ = _____ b. m$\widehat{RQ}$ = _____

c. m$\widehat{PR}$ = _____ d. m$\widehat{PQR}$ = _____

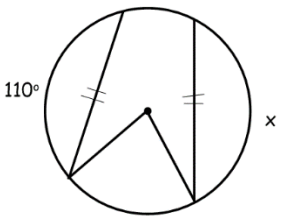
e. m$\widehat{PRQ}$ = _____ f. m$\widehat{RPQ}$ = _____



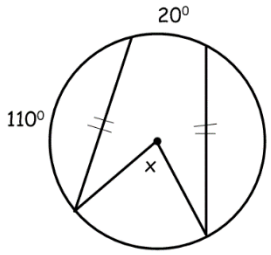

**Practice: C-Level:**

Solve for x and y:

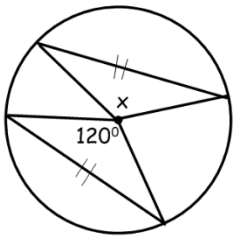
1.



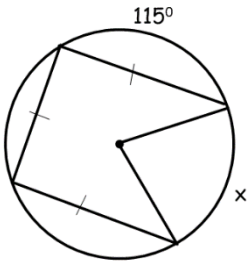

2.



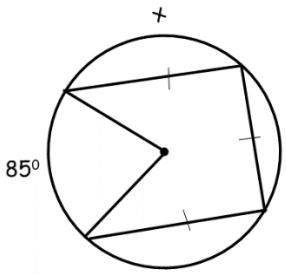

3.



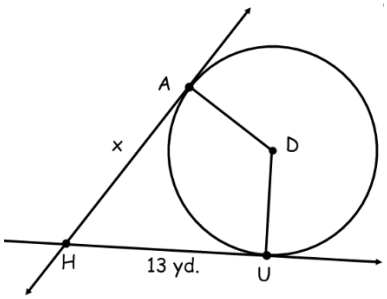

4.



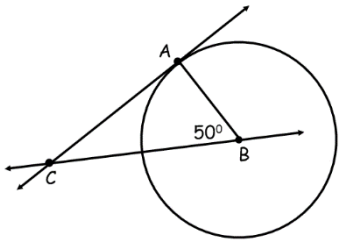

5.



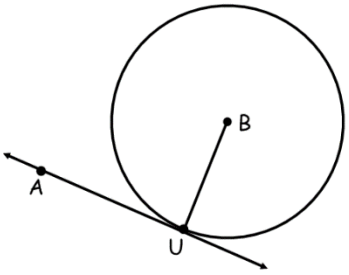

6.



7. m$\angle ACB$ = _____

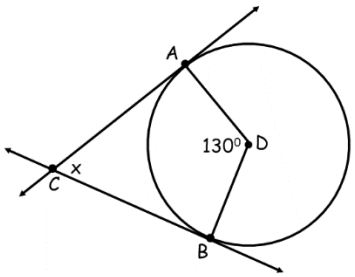



8. m$\angle AUB$ = _____

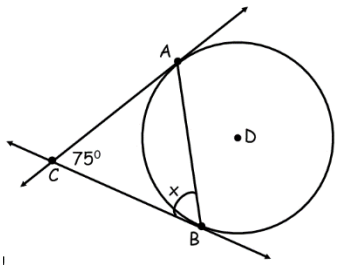



**Practice: B-Level**

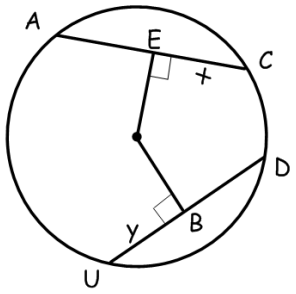
9.



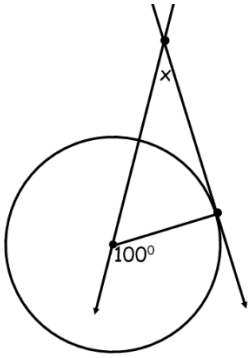

10.



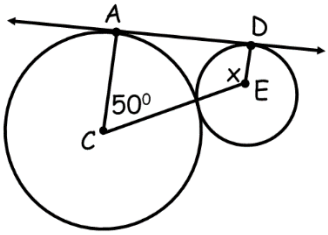

11. $m\overline{AC} = 18\,m$
$m\overline{UD} = 20\,m.$



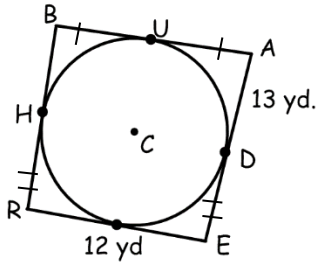

12.




13.

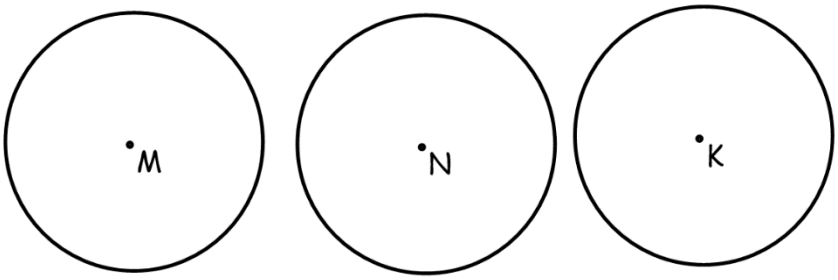



14. Find the perimeter of BAER




**Looking Ahead:**

Draw each of the following on the given circles, going in order, each letter can only be used once.




1. On circle N, draw diameter $\overline{AB}$
2. Draw radius $\overline{KL}$
3. Draw $\angle ANC$
4. On circle M, draw chord $\overline{DF}$
5. Draw $\overleftrightarrow{YE}$ with point of tangency

L 6. Draw $\angle ABC$

7. Draw $\angle DMF$
8. Create $\widehat{DRF}$
9. Draw $\angle DRF$

1. Which angle has a greater measure, $\angle DRF$ or $\angle DMF$? _____
2. Which angle has a greater measure, $\angle ABC$ or $\angle ANC$? _____
3. Which angle has a greater measure, $\angle KLY$ or $\angle KLE$? _____
4. m $\widehat{ACB}$ = _____