## Identify each of the following for circle P.

1. Name 3 chords.

EF, AB, BI Name 1 diameter.

2.

3. Name 5 radii.

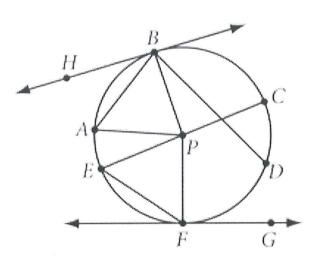
PB, PA, PE, PF, PC Name 1 inscribed angle.

4.

LABD

6. Name 2 points of tangencies.

· F. · B

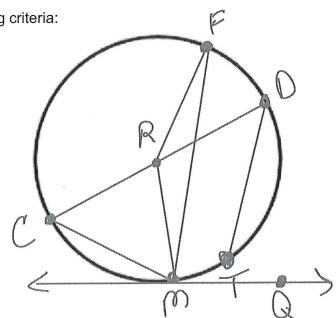


5. Name 2 tangents.

Name 2 central angles. 7.

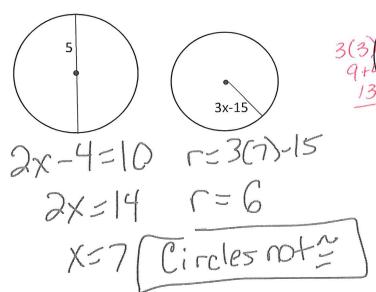
< APB LEPF

- Draw and label a circle with the following criteria: 8.
  - Center is point R
  - Diameter is  $\overline{CD}$
  - Two radii  $\overline{RF}$  and  $\overline{RM}$
  - Chords  $\overline{FM}$  and  $\overline{CM}$
  - Inscribed angle ∠CDT
  - Tangent line  $\overrightarrow{MQ}$

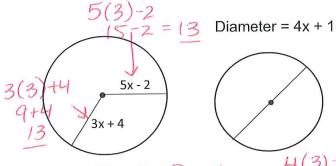


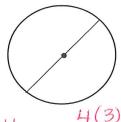
Determine if each of the following sets of circles are congruent. The circles may not be drawn to scale.

9. Diameter = 2x - 4



10.

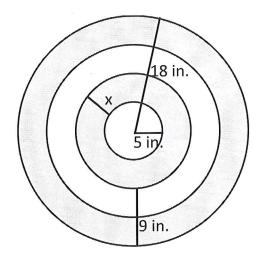




$$5x-2=3x-3x$$

$$\frac{2x=6}{2}$$

A dartboard is composed of concentric circles. Use the information provided to find the length 11. of the inner grey ring of the dartboard.



X=18-5-9

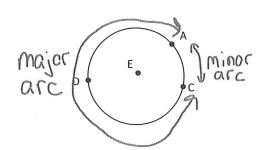
Give 3 more examples of things in the real world which are composed of concentric circles. 12.

Ripples in a pand, a CD, Ringsinatree

## 9.0 Circle Definitions and Arcs Homework Day 2 **Geometry 3313**

Name	hey		
Date	, 0/	Period	

What is the difference between a major and minor arc? Explain using the picture and a few 1. sentences.



The minor arc is less than 180° and is The major arc is greater than 180° and is ADC in the picture.

Given circle A, find the measures of the arcs. Are the arcs congruent?

2. 
$$mBC$$
 and  $mEF$ 

3. mCD and mDE

- Congruent
  5. mBFE and mCBF

Find the measure of each arc in circle O.  $m\angle BOA = 44^{\circ}$ 



7. *mBC* 

8. *mCD* 



9. mÂCB

10. *mBCD* 



B6° 36 44° D

C



36°

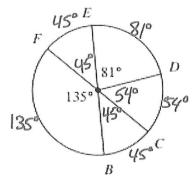
D

## Find the measure of each of the following in the circle to the right.

12. 
$$\widehat{mFD}$$

13. 
$$m\widehat{FCI}$$

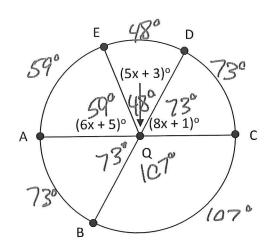
14. 
$$m\widehat{FBC}$$



## Use the figure at the right to answer 16 and 17.

16. Find the value of x.

$$6x+5+5x+3+8x+1=180$$
 $19x+9=180$ 
 $19x=171$ 
 $x=9$ 



17. a. Find the 
$$\widehat{mDE}$$

b. Find the 
$$\widehat{mAB}$$

c. Find the 
$$\widehat{mDCB}$$

d. Find the 
$$\widehat{mBDC}$$