Name		
Per	Date	

Unit 12 Circles Review Packet

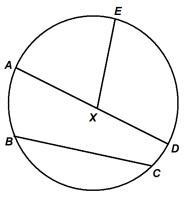
Unless otherwise directed, please round all answers to the nearest tenth place.

Directions: In the box provided next to each target section, put an (S) if you were able to complete the section by yourSELF, an (H) if you received a minimal amount of HELP from me, a classmate, or another

source, or a (D) if you felt the section was DIFFICULT and required you to get a lot of help. This will help provide you by giving you feedback as to what topics you should be focusing on as you prepare for the test.

For #1 – 4, use the picture below to answer the following questions about $\bigcirc X$

1)	Name the center of the circle
2)	Name 3 radii,,,
3)	Name the diameter
4)	Name a chord that is not a diameter



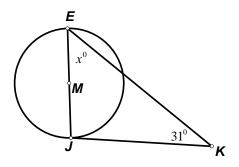


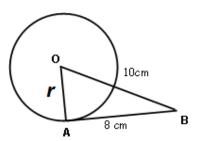
5) \overline{KJ} is tangent to circle M at J (not drawn to scale). Find the value of x.



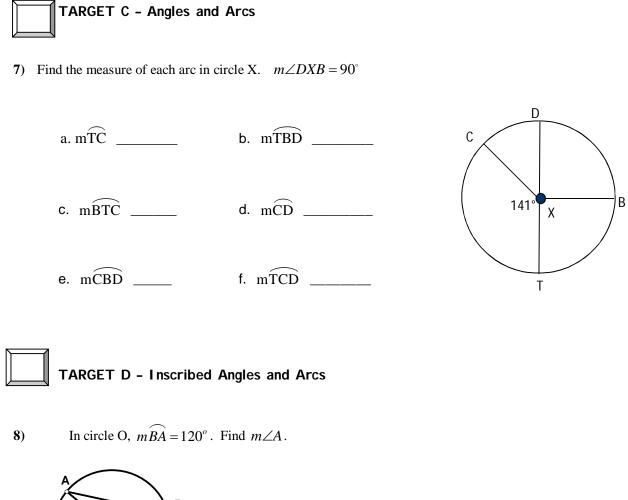
6)

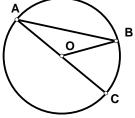
BA is tangent to circle O at B. Find the measure of the radius if $\overline{BO} = 10 \, cm$





r = _____



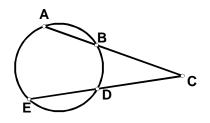


m∠A=_____

Use the diagram for 9 through 12 A child's toy is designed with a triangle inscribed in a circle. \overline{BA} is a diameter. Find each variable.

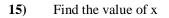


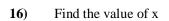
13) If $\widehat{mAE} = 120$ and $\widehat{mBD} = 62$, find $m \angle C$.

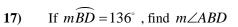


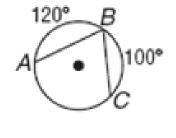


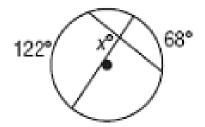
14) Find $m \angle ABC$

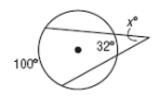


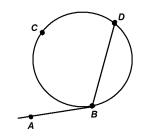












TARGET F – Equations of a Circle

For #18 – 20, find the center and radius of each circle.

18)
$$x^2 + y^2 = 36$$
 19) $(x-2)^2 + (y-7)^2 = 49$ **20**) $(x+1)^2 + (y+6)^2 = 16$

For #21 – 23, write the equation of the circle with the given center and radius.

21)	center $(0, 0); r = 7$	22)	center $(4, 3); r = 8$	23)	center $(5, 3); r = 2$
-----	------------------------	-----	------------------------	-----	------------------------

For #24-36, find the center and the radius. Then graph the circle.

24)
$$x^2 + y^2 = 25$$
 25) $(x - 3)^2 + (y - 4)^2 = 9$ **26)** $(x + 2)^2 + (y + 4)^2 = 1$

center_____ radius_____ center_____

radius_____

center_____



$\left - \right $		6	ţУ				
F	-	4					
H		2					
							X
-4		2 0		2	4	6	5
\square							
		-4	Ļ				

		a'	ŀУ					
		Ŭ						
		4						
		-						
		2						
		2						
_								X
-4	-2	0		2	4	ŀ	(Ś
		2						
		Ľ						
	-	4,	r					

				'م	чy					
				0						
				4						
				2						
				2						
_										X
-4	1	-7	2	0		2	4	Ļ	(5
				h						
			_	-Z						
			_	-4	r					