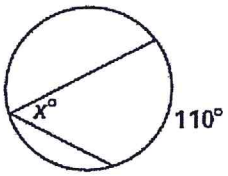
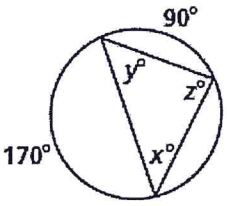
Inscribed Angles

Find the value of each variable.

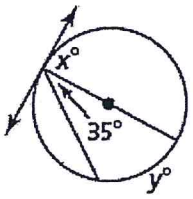
4.



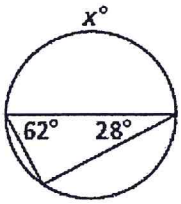
5.



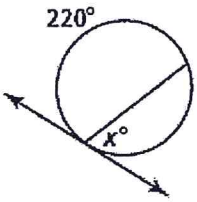
C 6.



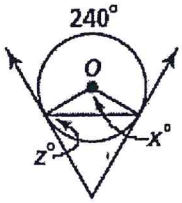
7.



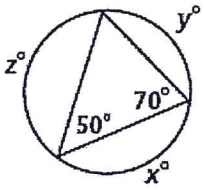
C 8.



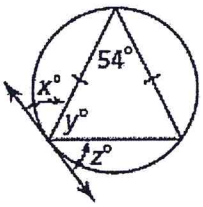
C 9.



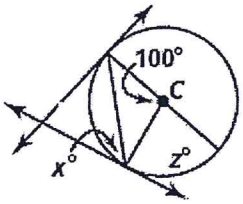
10.



C 11.



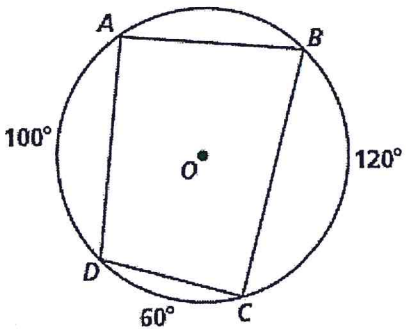
C 12.



Find each indicated measure for ⊙*O*.

13. a. $m\angle A$ c) $m\angle C$

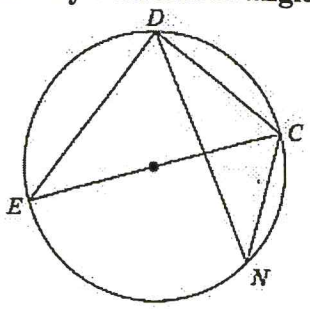
b. $m\angle B$ d) $m\angle D$



C = Challenge (try, but okay if you don't get them)

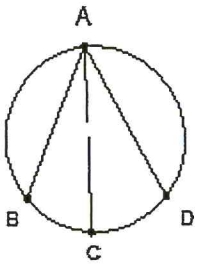
Inscribed Angles

Identify 3 inscribed angles and their corresponded intercepted arcs

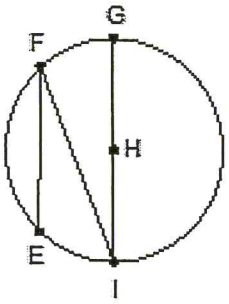


1. inscribed angle _____ intercepted arc _____
2. inscribed angle _____ intercepted arc _____
3. inscribed angle _____ intercepted arc _____

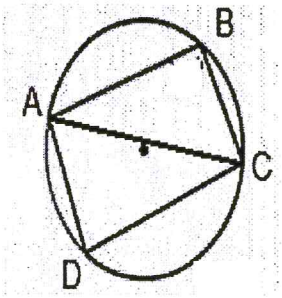
Given the following information, identify the corresponded part.



<ABC, intercepted arc _____
Arc BD, inscribed angle _____



Arc FG, inscribed angle _____
<EFI , intercepted arc _____



<ABC, intercepted arc _____
Arc BCD, inscribed angle _____
Arc AB, inscribed angle _____
<ACD, intercepted arc _____

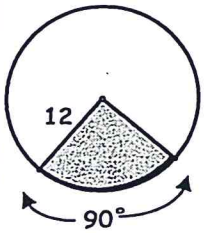
Geometry Worksheet
Arc Length, Sector Area, Segment Area

Name_____
Date_____ Period_____

Find the shaded area. On problems 1-3, find the arc length for the shaded sector also.

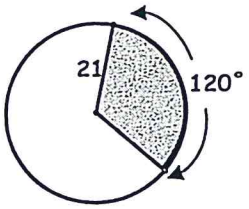
1. A_{sector} = _____

   Arc length = _____



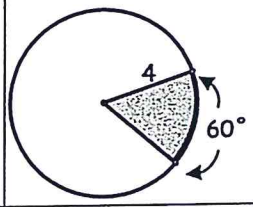
2. A_{sector} = _____

   Arc length = _____

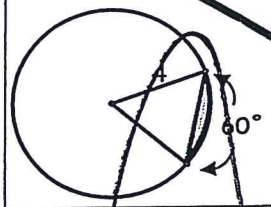


3. A_{sector} = _____

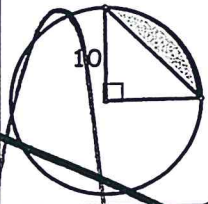
   Arc length = _____



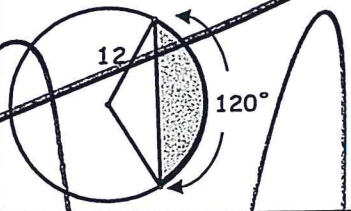
4. $A_{segment}$ = _____



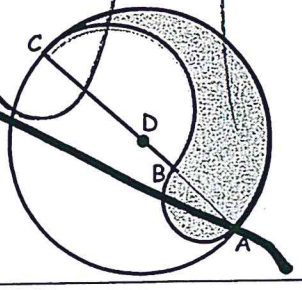
5. $A_{segment}$ = _____



6. $A_{segment}$ = _____



7. If BC = 2AB, what fraction of the circle is shaded? (Hint: Let the AB = 2x. D is the center of the big circle. AB is the diameter of a little circle and BC is the diameter of a medium circle. Find the areas in terms of x.)



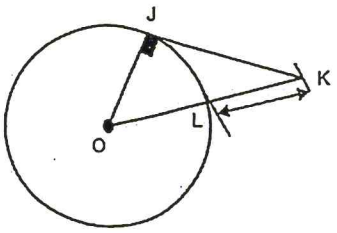
8. Find the degree measure of the arc of a sector with area 36π if the area of the circle is 144π.

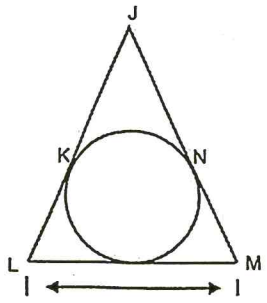
9. Two circles have radii 3 cm. and 5 cm. Find the ratio of their areas.

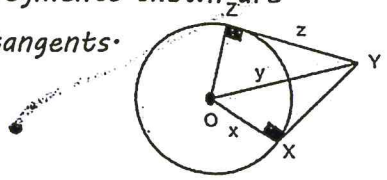
10. The areas of two circles are in the ratio 16 to 9. Find the ratio of their radii.

Name: _____ Date _____

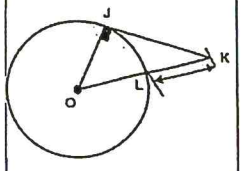
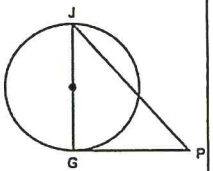
Topic: *Tangents and circle-Worksheet 1*

JK is a tangent 	Given OJ, KL	Find JK
	1. 4, 5	
	2. 6, 4	
	3. 1, 5	

Segments shown are tangents 	Given JK, KL and NM	Find LM
	4. 4,2,5	
	5. 2,5,9	
	6. 2,8,14	

Segments shown are tangents. 	Given XY and OZ, are 5 and 3.	Find value of the variable	
		7.	x
		8.	y

State true or false:

9. 	OJ=2, JK=3, OK=5 Is JK a tangent?	10. 	JG is diameter, radius = 11, PG=20, JP=30 Is GP a tangent?