Geometry/Trig 2	Name:	 	
Section 11-5: Circumference and A	rea of Circles Date:		
Circumference of a circle			
Formula:			
r:			
Ex1	Ex2	Ex3	
Area of a circle:			
Formula:			
r:			
Ex1	Ex2	Ex3	
Arc Length:			
Ex1	Ex2	Ex3	
Arc Length Formula:			
Ex4			

ea of a Sector:	Area
ea of Sector Formula:	Area
1 Ex2	Ex1
Find the circumference and area. Leave each answer in terms of π.	Fin
1. $r = 6$ 2. $d = 10$	
$C = \underline{\hspace{1cm}}$	77
A =	• ,
3. Find the circumference and area, correct to the nearest tenth, of a circle with diameter 4.2. Use $\pi \approx 3.14$.	3.
C = $A = $ 22	
4. Find the circumference and area of a circle with radius $1\frac{\pi}{11}$. Use $\pi \approx 7$.	4.
$C = \underline{\hspace{1cm}}, A = \underline{\hspace{1cm}}$	
5. The area of a circle is 48π . Find the circumference	5. 6
radius of ⊙O	•
7. A dog's leash is tied to a post in the ground, leaving the dog free to roam over a circular region. If the leash is 6.5 m long, find the area of the region to the nearest square meter. Use $\pi \approx 3.14$.	7
In Exercises 8 and 9, O is the center of the circle. Find the arc length and area of each shaded sector.	
8. 6 30 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
arc length = major arc length =	
area = area =	
Find the area of each shaded region. In Exercise 11, O is the center of the circle.	
10.	

area =

area =