

NAME Key

DATE _____

SCORE _____

Practice 44 Supplementary Practice

Lessons 11-5, 11-6

Find the circumference and area. Leave each answer in terms of π .

1. $r = 6$

$C = 12\pi$

$A = 36\pi$

2. $d = 10$

$C = 10\pi$

$A = 25\pi$

3. Find the circumference and area, correct to the nearest tenth, of a circle with diameter 4.2. Use $\pi \approx 3.14$.

$C = 13.2$, $A = 13.8$

4. Find the circumference and area of a circle with radius $1\frac{3}{11}$. Use $\pi \approx \frac{22}{7}$.

$C = 8$, $A = \frac{56}{11}$

5. The area of a circle is 48π . Find the circumference. $8\pi\sqrt{3}$

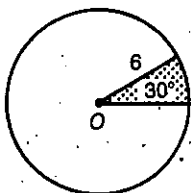
6. The area of sector AOB is 36π and $m\angle AOB = 40$. Find the radius of $\odot O$. 18

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 $\pi \approx 3.14$.

133 m^2

In Exercises 8 and 9, O is the center of the circle. Find the arc length and area of each shaded sector.

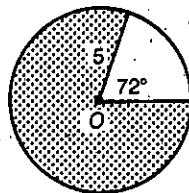
8.



arc length = π

area = 3π

9.

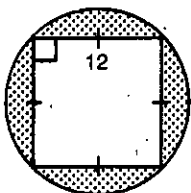


major arc length = 8π

area = 20π

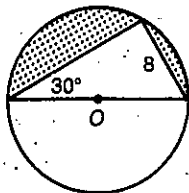
Find the area of each shaded region. In Exercise 11, O is the center of the circle.

10.



area = $72\pi - 144$

11.



area = $32\pi - 32\sqrt{3}$