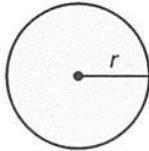


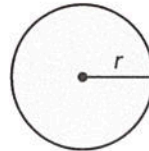
**Chapter  
8**

Write and solve an equation to find the missing dimension of the circle.

1. Diameter = 24 in.

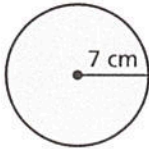


2. Circumference = 314 m

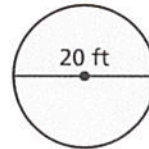


Find the circumference and area of the circle. Use 3.14 or  $\frac{22}{7}$  for  $\pi$ .  
*Leave answers in terms of  $\pi$*

- 3.



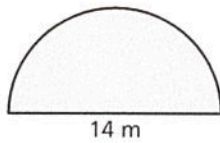
- 4.



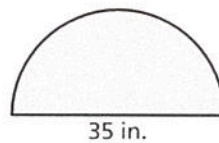
5. The radius of a circle is 18 meters. What is the diameter?  
6. Your kitchen clock has a radius of 5 inches. What is the circumference?

Find the perimeter and area of the semicircle. *Round to whole number.*

- 7.



- 8.



9. The top of a glass coffee table is a circle. The circumference is 15.7 feet. *Round to tenth.*  
a. What is the radius of the table?  
b. What is the area of the table?
10. You want to find the diameter of a large circular fountain in the park, but cannot measure straight across. Explain how you could use the circumference of the fountain to estimate the diameter.

**Answers**

1. \_\_\_\_\_  
\_\_\_\_\_  
2. \_\_\_\_\_  
\_\_\_\_\_  
3. \_\_\_\_\_  
\_\_\_\_\_  
4. \_\_\_\_\_  
\_\_\_\_\_  
5. \_\_\_\_\_  
6. \_\_\_\_\_  
7. \_\_\_\_\_  
\_\_\_\_\_  
8. \_\_\_\_\_  
\_\_\_\_\_  
9. a. \_\_\_\_\_  
b. \_\_\_\_\_  
10. See left.