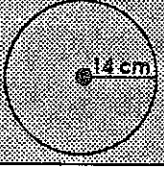


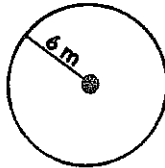
Area of a Circle



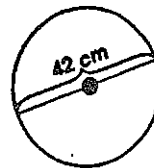
$A = \pi \cdot (\text{radius})^2$
 $A = \pi r^2$ or $A = \frac{22}{7} \cdot (14)^2$ or $A = 3.14 (14)^2$
 $A = 196\pi \text{ cm}^2$ or $A = 616 \text{ cm}^2$ or $A = 615.44 \text{ cm}^2$

Find the area of each circle using the indicated value for pi.

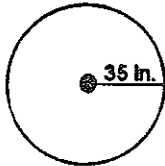
1.



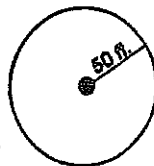
2.



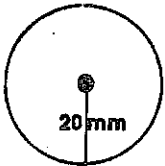
3.



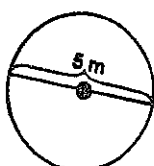
4.



5.



6.



7. A circle has an area of 4069.44 meters squared. What is the radius of the circle? What is the diameter?
8. A circle has a diameter of 16 meters. What is the radius of the circle? What is the area?
9. A circle has a circumference of 56.52 meters squared? What is the radius of the circle? What is the area of the circle?

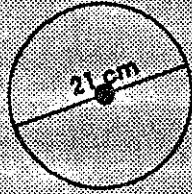
Circumference of a Circle

The **circumference** of a circle is the distance around the outside of the circle.

Circumference = diameter x pi

$\pi = \pi$ = exact value

$\pi = \frac{22}{7}$ or 3.14
approximations

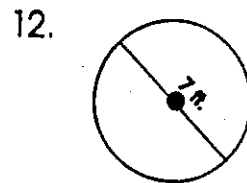
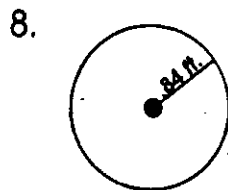
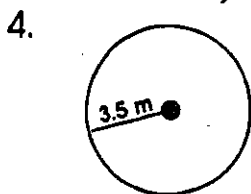
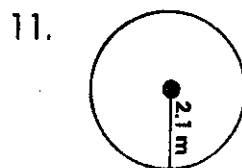
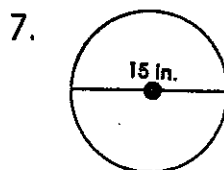
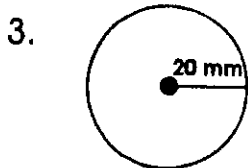
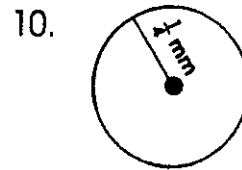
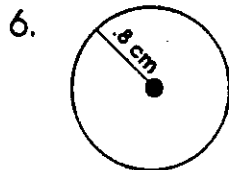
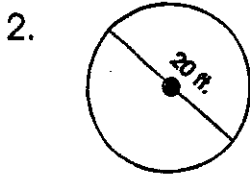
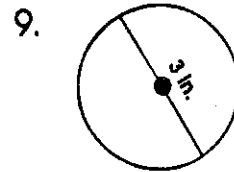
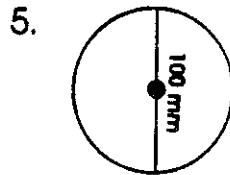
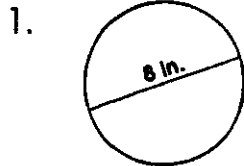


$$C = \pi d$$

$$C = \pi \cdot 21 \text{ or } C = \frac{22}{7} \cdot 21 \text{ or } C = 3.14 \cdot 21$$

$$C = 21\pi \text{ cm} \quad C = 66 \text{ cm} \quad C = 65.94 \text{ cm}$$

Find the circumference



13. The wheel of a wagon has a radius of 4.9 inches. How far does the wagon travel in one turn of the wheel?