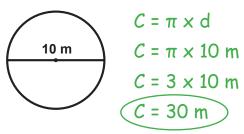
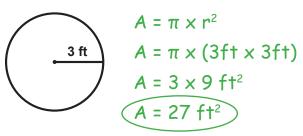
Circles: Circumference & Area

Estimate the circumference of this circle by using a rounded-off value of 3 for PI.



Estimate the area of this circle by using a rounded-off value of 3 for PI.

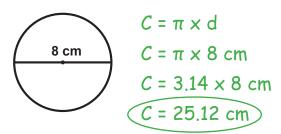


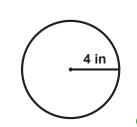
Calculate the circumference of this circle using the more accurate value of PI = 3.14



Calculate the area of this circle using the more accurate value of PI = 3.14



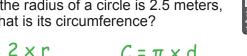




$$A = \pi \times r^{2}$$

 $A = \pi \times (4 \times 4)$
 $A = 3.14 \times 16 \text{ in}^{2}$
 $A = 50.24 \text{ in}^{2}$

5 If the radius of a circle is 2.5 meters, what is its circumference?



If the diameter of a circle is 22 inches, what is its area?



$$d = 2 \times r$$

$$d = 2 \times 2.5 \text{ m}$$

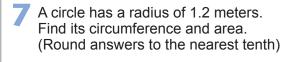
$$d = 5 \text{ m}$$

$$C = \pi \times 5 \text{ m}$$

$$C = 3.14 \times 5 \text{ m}$$

$$C = 15.7 \text{ m}$$

 $r = d \div 2$ $A = \pi \times r^2$ $r = 22 \div 2$ $A = \pi \times (11 \times 11)$ r = 11 in $A = 3.14 \times 121 \text{ in}^2$ $A = 379.94 \text{ in}^2$





A circle has a diameter of 15 feet. Find its circumference and area. (Round answers to the nearest tenth)



 $d = 2.4 \, \text{m}$

$$C = \pi \times d$$

 $C = 3.14 \times 2.4 = 7.5 \text{ m}$

$$A = \pi \times r^2$$

 $A = 3.14 \times (1.2 \times 1.2) = 4.5 \text{ m}^2$

 $C = \pi \times d$ $C = 3.14 \times 15 = 47.1 \text{ ft}$

r = 7.5 ft

 $A = \pi \times r^2$ $A = 3.14 \times (7.5 \times 7.5) = (176.6 \text{ ft}^2)$