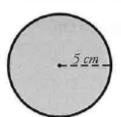
## Area of a Circle

To find the area of a circle, use the formula  $pi \times radius^2 = area$ . This formula is often written as  $A = \pi r^2$ .



The circle pictured here has a radius of 5 cm. r = 5 cm

 $\pi \approx 3.14$ 

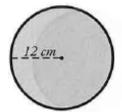
 $A = 3.14 \times (5 \text{ cm} \times 5 \text{ cm})$ 

 $A = 3.14 \times 25 \text{ cm}^2$ 

 $A = 78.50 \text{ cm}^2$ 

Find the area of each circle. Use 3.14 for pi.

a.



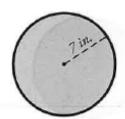
b.

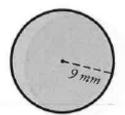


C.

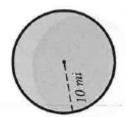


d.





f.

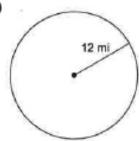


g. Kaylee and Rory have a circular swimming pool. The pool has a cover that fits snuggly over the top of it. If the radius of the pool is 11 ft, what is the surface area of the cover?

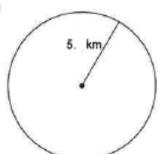
## Finding the Area of a Circle

Find the area of each. Round to the nearest tenth.

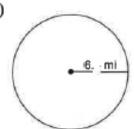
1)



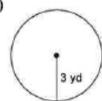
2)



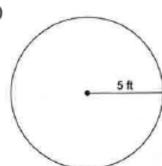
3)



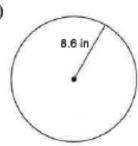
4)



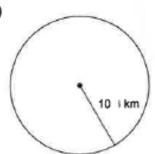
5)



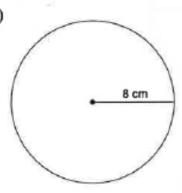
6)

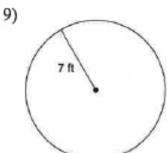


7)

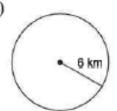


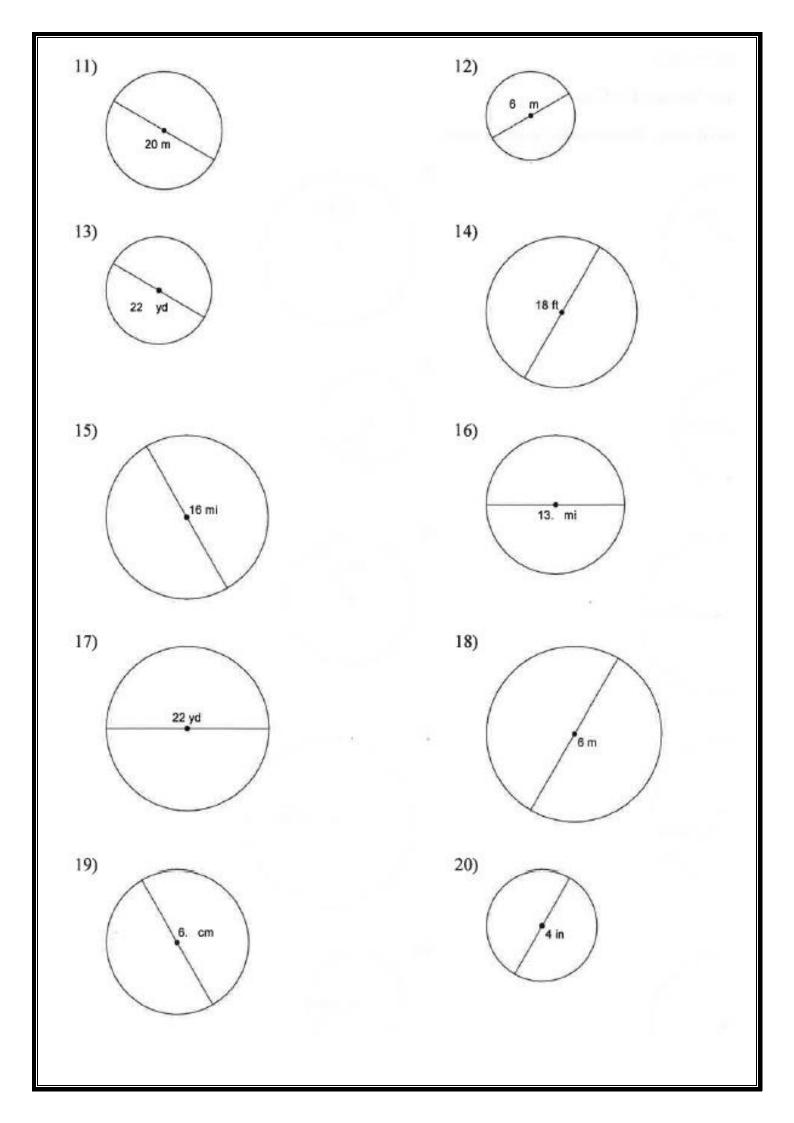
8)



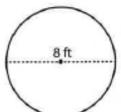


10)









## Area of a circle = $\pi r^2$

Diameter = 8 ft

Radius (r) = 4 ft

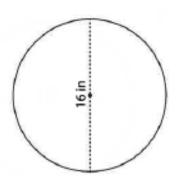
Area =  $\pi r^2$ 

 $= \pi \times 4 \times 4$ 

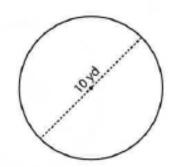
Area =  $16\pi$  ft<sup>2</sup>

Find the exact area of each circle.

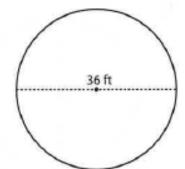
1)



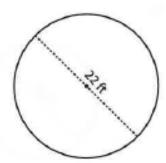
2)



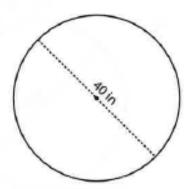
3)



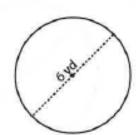
4)



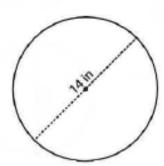
5)



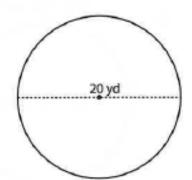
6)



7)



8)



9)

