You can use a formula to find the area of a circle

When you are given the radius of the circle, use the formula $A = \pi r^2$, where A = area and r = radius. The value of π is approximately 3.14.



$$A = \pi r^2$$

 $A = 3.14 \times 9^2$
 $A = 3.14 \times 81$
 $A = 254.34 \text{ in.}^2$, or about 254.3 in.²

When you are given the diameter of the circle, first divide it by 2 because the radius is half the diameter. Then use the formula.



The diameter is 10 cm, so the radius, r, is 5 cm.

$$A = \pi r^2$$

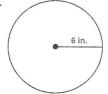
$$A = 3.14 \times 5^2$$

$$A = 3.14 \times 25$$

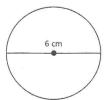
$$A = 78.5 \text{ cm}^2$$

Find the area of each circle. Round to the nearest tenth, if necessary.

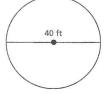
1.



2.



3.



$$r =$$
_____in.

$$r=$$
 ____ cm

$$r = \underline{\hspace{1cm}}$$
ft

$$A = \pi r^2$$

$$A = \pi r$$

$$A = \pi r^2$$

$$A = \pi r^2$$

$$A = \times$$

$$A = \underline{\hspace{1cm}} \times \underline{\hspace{1cm}}$$

$$A = _{----} in.^{2}$$

$$A =$$
_____cm²

$$A = \underline{\qquad} \times \underline{\qquad}$$

$$A = \underline{\qquad} ft^2$$