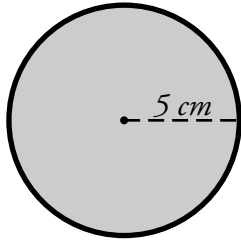Name: _____

Area of a Circle

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

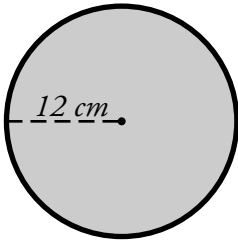The circle pictured here has a radius of 5 cm.
r = 5 cm
$\pi \approx 3.14$
A = 3.14 x (5 cm x 5 cm)
A = 3.14 x 25 cm^2
A = 78.50 cm^2

5 cm

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

a.

12 cm

_____

b.

3 m

_____

c.

6 km

_____

d.

7 in.

_____

e.

9 mm

_____

f.

10 mi

_____

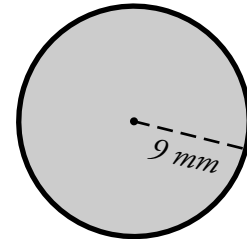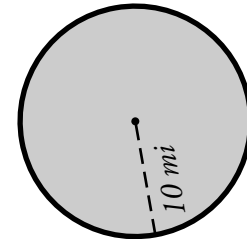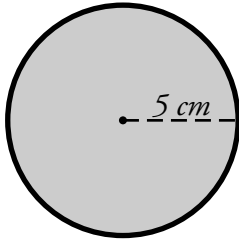**g.** Kaylee and Rory have a circular swimming
pool. The pool has a cover that fits snuggly
over the top of it. If the radius of the pool is
11 ft, what is the surface area of the cover?

_____

ANSWER KEY

Area of a Circle

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

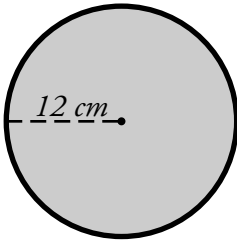The circle pictured here has a radius of 5 cm.
r = 5 cm
$\pi \approx 3.14$
A = 3.14 x (5 cm x 5 cm)
A = 3.14 x 25 cm^2
A = 78.50 cm^2

5 cm

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

a.

12 cm

452.16 cm^2

b.

3 m

28.26 m^2

c.

6 km

113.04 km^2

d.

7 in.

153.86 in.^{2}

e.

9 mm

254.34 mm^2

f.

10 mi
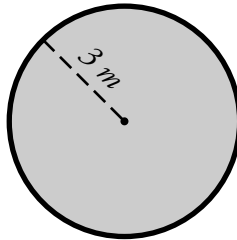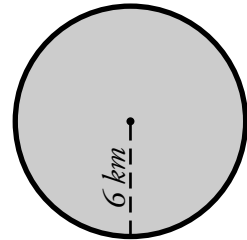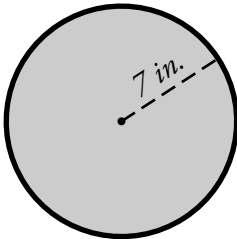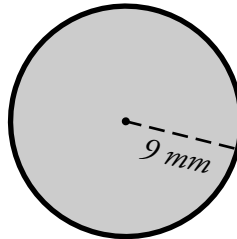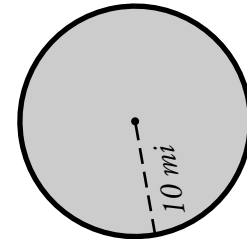
314 mi^2

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?

3.14 x 121 = 379.94 ft^2