# Finding Area Of A Circle When Its Radius or Diameter is Given

You are given with the circle pictures or word problems containing either radius or the diameter of the circle. Find the <u>area of the given circle</u> (complete the solution).

1.

This problem is guiding you through the steps to find the area of a circle when its radius is given. Fill in the missing parts to complete the solution.

3 cm
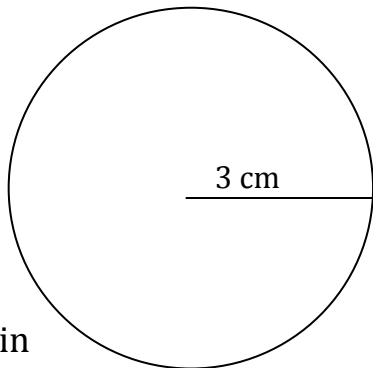
$$A = \pi r^2$$
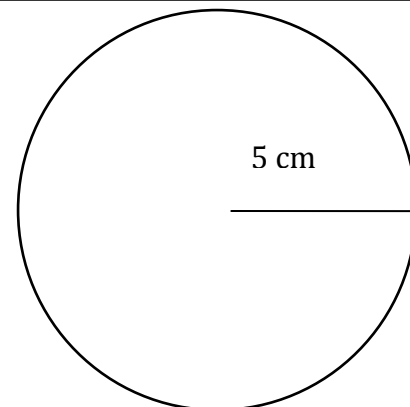
Where $r = 3\ cm$ *and* $\pi = 3.14$

$$A = 3.14 \text{ x } 3^2$$
$$A = \ 3.14 \text{ x } 9$$
$$A = \qquad cm^2$$

2.

Fill in the missing parts to complete the solution of the given problem:

5 cm

$$A = \pi r^2$$

Where $r =$ *and* $\pi = 3.14$

$$A = 3.14 \text{ x}$$
$$=$$
$$A =$$

3. Find the area of the given circle.

Solution: In this circle, we are given with the diameter. But, we can find its radius by dividing the diameter by 2, as shown below:

22 feet

$$Diameter\ "d" = 22\ feet$$

$$Radius\ "r" = \frac{d}{2} = \frac{22}{2} = 11\ feet$$

$$A = \pi r^2$$

Now finish the rest of the solution same as the above two problems.

Answers: 1. 28.26,   2. 78.5,   3. 379.94