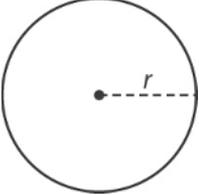
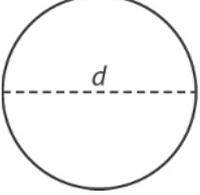


LESSON
9-3

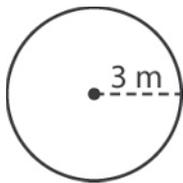
Area of Circles

Success for English Learners

| | |
|---|--|
|  $A = \pi r^2$ $\pi \approx 3.14 \text{ or } \frac{22}{7}$ |  $A = \pi r^2$ $r = \frac{d}{2}$ $A = \pi \left(\frac{d}{2}\right)^2$ |
|---|--|

Problem 1

A. The radius is given.



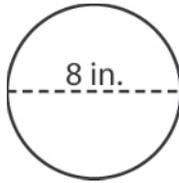
$$A = \pi r^2 \quad r = 3$$

$$A = \pi \cdot 3^2 = 9\pi$$

$$\approx 9 \cdot 3.14$$

$$\approx 28.3 \text{ m}^2$$

B. The diameter is given.



$$A = \pi r^2$$

$$r = \frac{d}{2} = \frac{8}{2} = 4$$

$$A = \pi \cdot 4^2 = 16\pi$$

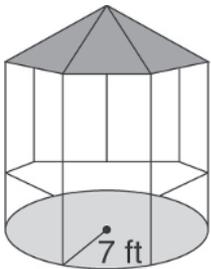
$$\approx 16 \cdot 3.14$$

$$\approx 50.2 \text{ in.}^2$$

Problem 2

Find the area in terms of π .

A. The radius is given.



$$A = \pi r^2 \quad r = 7$$

$$A = \pi \cdot 7^2 = 49\pi$$

$$A = 49\pi \text{ ft}^2$$

B. The diameter is given.



$d = 9 \text{ in.}$

$$A = \pi r^2$$

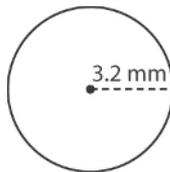
$$r = \frac{d}{2} = \frac{9}{2} = 4.5$$

$$A = \pi \cdot 4.5^2 = 20.25\pi$$

$$A = 20.25\pi \text{ in.}^2$$

Find the area in terms of π . Then use 3.14 for π and find the area to the nearest tenth.

1. _____



2. _____

