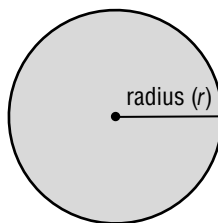


14-3**Study Guide and Intervention****Area of Circles**

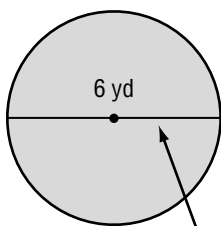
The area A of a circle is the product of π and the square of the radius r .

Symbols $A = \pi r^2$

Model



EXAMPLE 1 Find the area of the circle to the nearest tenth.



The diameter is 6 yards.
So, the radius is $6 \div 2$
or 3 yards.

$$A = \pi r^2$$

Area of a circle

$$A \approx 3.14 \times 3^2$$

Replace π with 3.14 and r with 3.

$$A \approx 3.14 \times 9$$

Evaluate 3^2 .

$$A \approx 28.26$$

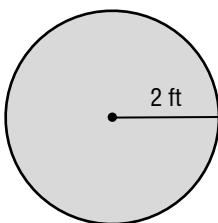
Use a calculator.

The area of the circle is about 28.3 square yards.

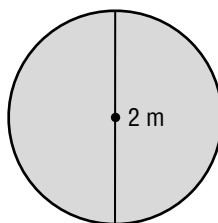
EXERCISES

Find the area of each circle to the nearest tenth. Use 3.14 for π .

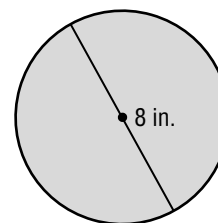
1.



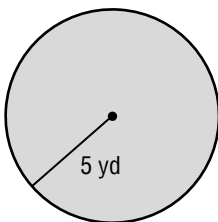
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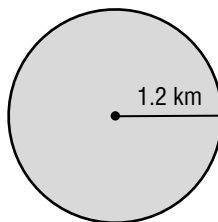
3.



4.



5.



6.

