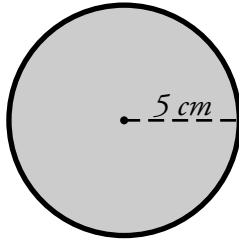


Name: _____

Area of a Circle

To find the area of a circle, use the formula **pi x radius² = area**.
This formula is often written as **$A = \pi r^2$** .



The circle pictured here has a radius of 5 cm.

$$r = 5 \text{ cm}$$

$$\pi = 3.14$$

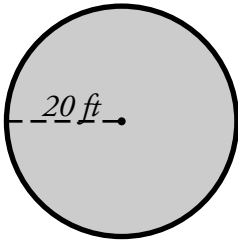
$$A = 3.14 \times (5 \text{ cm} \times 5 \text{ cm})$$

$$A = 3.14 \times 25 \text{ cm}^2$$

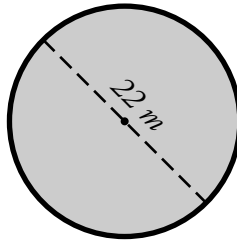
$$A = 78.50 \text{ cm}^2$$

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

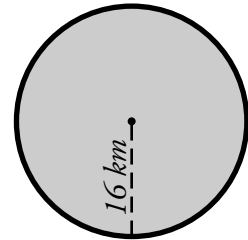
a.



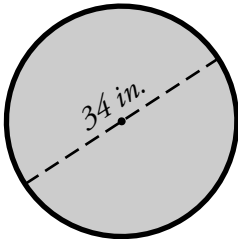
b.



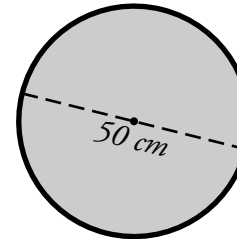
c.



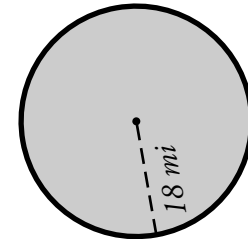
d.



e.



f.

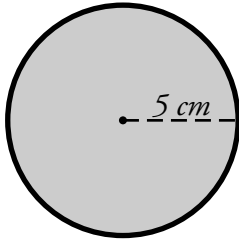


- g. Jose has a circular dartboard. The bull's eye has a diameter of 14 mm. What is the area of the bull's eye?

ANSWER KEY

Area of a Circle

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



The circle pictured here has a radius of 5 cm.

$$r = 5 \text{ cm}$$

$$\pi = 3.14$$

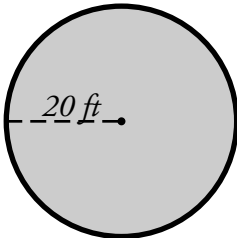
$$A = 3.14 \times (5 \text{ cm} \times 5 \text{ cm})$$

$$A = 3.14 \times 25 \text{ cm}^2$$

$$A = 78.50 \text{ cm}^2$$

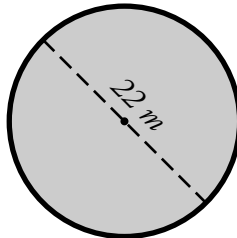
Find the area of each circle. Use 3.14 for pi.

a.



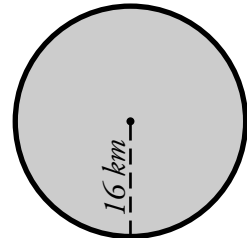
$$\underline{1256 \text{ ft}^2}$$

b.



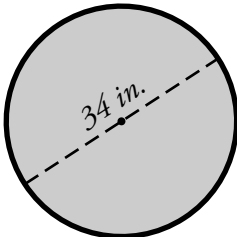
$$\underline{379.94 \text{ m}^2}$$

c.



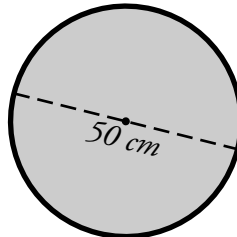
$$\underline{803.84 \text{ km}^2}$$

d.



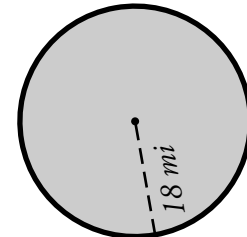
$$\underline{907.46 \text{ in.}^2}$$

e.



$$\underline{1962.50 \text{ cm}^2}$$

f.



$$\underline{1017.36 \text{ mi}^2}$$

- g. Jose has a circular dartboard. The bull's eye has a diameter of 14 mm. What is the area of the bull's eye?

$$\underline{3.14 \times 49 \text{ mm}^2 = 153.86 \text{ mm}^2}$$