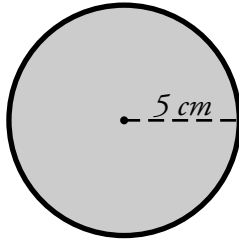


Name: _____

Circumference of a Circle

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



The circle pictured here has a radius of 5 cm.

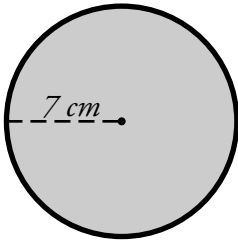
$$r = 5 \text{ cm}$$

$$\pi \approx 3.14$$

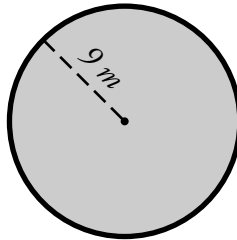
$$2 \times 3.14 \times 5 \text{ cm} = 31.4 \text{ cm}$$

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

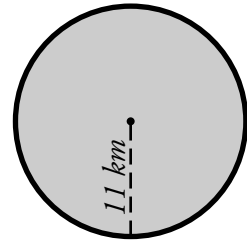
a.



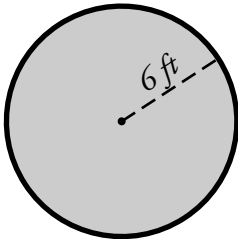
b.



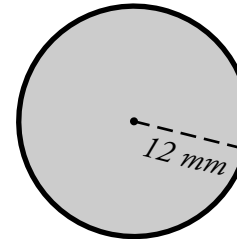
c.



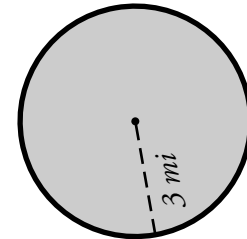
d.



e.



f.

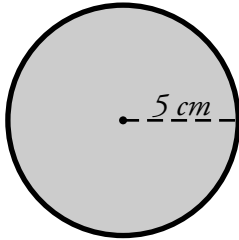


- g. Mr. Tobias is buying new tires for his bike. He wants to make sure the new tires will fit on his bike but the only measurement he has is the radius of 13 inches. What is the circumference of the new tires?

ANSWER KEY

Circumference of a Circle

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



The circle pictured here has a radius of 5 cm.

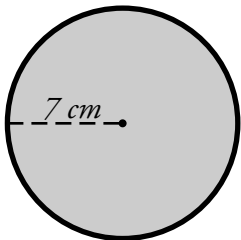
$$r = 5 \text{ cm}$$

$$\pi \approx 3.14$$

$$2 \times 3.14 \times 5 \text{ cm} = 31.4 \text{ cm}$$

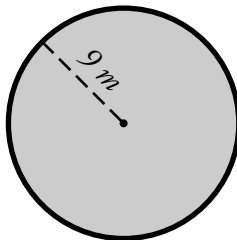
Find the circumference of each circle. Use 3.14 for pi.

a.



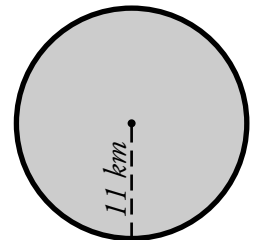
$$43.96 \text{ cm}$$

b.



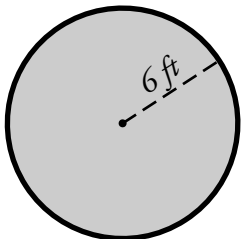
$$56.52 \text{ m}$$

c.



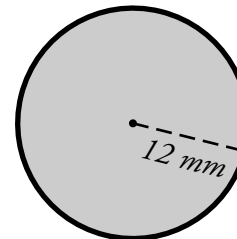
$$69.08 \text{ km}$$

d.



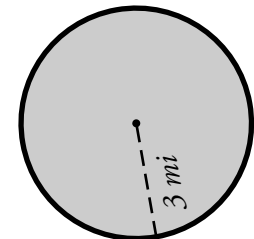
$$37.68 \text{ ft}$$

e.



$$75.36 \text{ mm}$$

f.



$$18.84 \text{ mi}$$

- g. Mr. Tobias is buying new tires for his bike. He wants to make sure the new tires will fit on his bike but the only measurement he has is the radius of 13 inches. What is the circumference of the new tires?

$$2 \times 3.14 \times 13 = 81.64 \text{ in.}$$