



# Circumference of circles

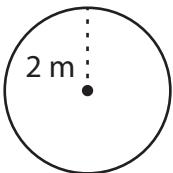
Name \_\_\_\_\_

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CC:10

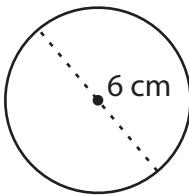
Find the circumference of the circle. (Use  $\pi = \frac{22}{7}$  or 3.14)

Example 1



$$\begin{aligned}\text{Circumference of circle} &= 2\pi r \\ \text{Radius } (r) &= 2 \text{ m} \\ \text{Circumference} &= 2 \times 3.14 \times 2 \\ &= \mathbf{12.56 \text{ m}}\end{aligned}$$

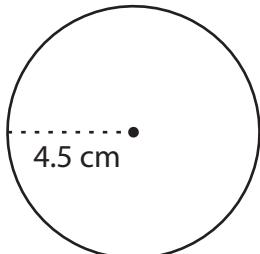
Example 2



$$\begin{aligned}\text{Diameter } (d) &= 2 \times \text{Radius } (r) \\ \text{Circumference of circle} &= 2\pi r \text{ or } \pi d \\ \text{diameter} &= 6 \text{ cm} \\ \text{Circumference} &= \pi \times d \\ &= 3.14 \times 6 \\ &= \mathbf{18.84 \text{ cm}}\end{aligned}$$

Find the circumference and radius/diameter of each circle (Use  $\pi = \frac{22}{7}$  or 3.14). Round the answer to the two decimal places.

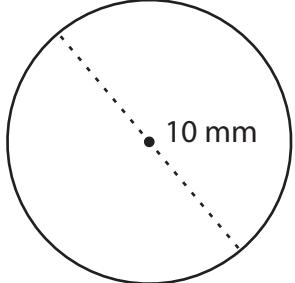
1)



$$\text{Diameter} = \boxed{\phantom{00}} \text{ cm}$$

$$\text{Circumference} = \boxed{\phantom{00}} \text{ cm}$$

2)



$$\text{Radius} = \boxed{\phantom{00}} \text{ mm}$$

$$\text{Circumference} = \boxed{\phantom{00}} \text{ mm}$$

3) Radius = 8.5 m

$$\text{Diameter} = \boxed{\phantom{00}} \text{ m}$$

$$\text{Circumference} = \boxed{\phantom{00}} \text{ m}$$

4) Diameter = 21 mm

$$\text{Radius} = \boxed{\phantom{00}} \text{ mm}$$

$$\text{Circumference} = \boxed{\phantom{00}} \text{ mm}$$

5) Radius = 2 cm

$$\text{Diameter} = \boxed{\phantom{00}} \text{ cm}$$

$$\text{Circumference} = \boxed{\phantom{00}} \text{ cm}$$

6) Diameter = 5.6 m

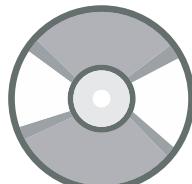
$$\text{Radius} = \boxed{\phantom{00}} \text{ m}$$

$$\text{Circumference} = \boxed{\phantom{00}} \text{ m}$$

7) The radius of the compact disc is 6 cm. What will be the diameter and the circumference of the compact disc. Round the answer to the two decimal places.

$$\text{Diameter} = \boxed{\phantom{00}} \text{ m}$$

$$\text{Circumference} = \boxed{\phantom{00}} \text{ m}$$





# Circumference of circles

Name \_\_\_\_\_

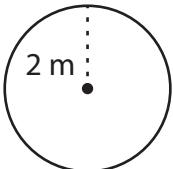
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## Answer key

CC:10

Find the circumference of the circle. (Use  $\pi = \frac{22}{7}$  or 3.14)

Example 1

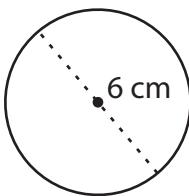


$$\text{Circumference of circle} = 2\pi r$$

$$\text{Radius (r)} = 2 \text{ m}$$

$$\text{Circumference} = 2 \times 3.14 \times 2 \\ = 12.56 \text{ m}$$

Example 2



$$\text{Diameter (d)} = 2 \times \text{Radius (r)}$$

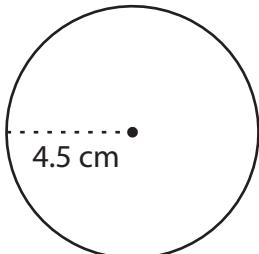
$$\text{Circumference of circle} = 2\pi r \text{ or } \pi d$$

$$\text{diameter} = 6 \text{ cm}$$

$$\begin{aligned}\text{Circumference} &= \pi \times d \\ &= 3.14 \times 6 \\ &= 18.84 \text{ cm}\end{aligned}$$

Find the circumference and radius/diameter of each circle (Use  $\pi = \frac{22}{7}$  or 3.14). Round the answer to the two decimal places.

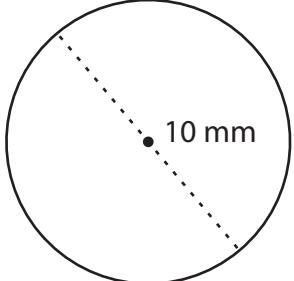
1)



$$\text{Diameter} = 9 \text{ cm}$$

$$\text{Circumference} = 28.26 \text{ cm}$$

2)



$$\text{Radius} = 5 \text{ mm}$$

$$\text{Circumference} = 31.4 \text{ mm}$$

$$3) \quad \text{Radius} = 8.5 \text{ m}$$

$$\text{Diameter} = 17 \text{ m}$$

$$\text{Circumference} = 53.38 \text{ m}$$

$$4) \quad \text{Diameter} = 21 \text{ mm}$$

$$\text{Radius} = 10.5 \text{ mm}$$

$$\text{Circumference} = 65.94 \text{ mm}$$

$$5) \quad \text{Radius} = 2 \text{ cm}$$

$$\text{Diameter} = 4 \text{ cm}$$

$$\text{Circumference} = 12.56 \text{ cm}$$

$$6) \quad \text{Diameter} = 5.6 \text{ m}$$

$$\text{Radius} = 2.8 \text{ m}$$

$$\text{Circumference} = 17.58 \text{ m}$$

- 7) The radius of the compact disc is 6 cm. What will be the diameter and the circumference of the compact disc. Round the answer to the two decimal places.

$$\text{Diameter} = 12 \text{ m}$$

$$\text{Circumference} = 37.68 \text{ m}$$

