

Alavi

21st Century Schools

Hello

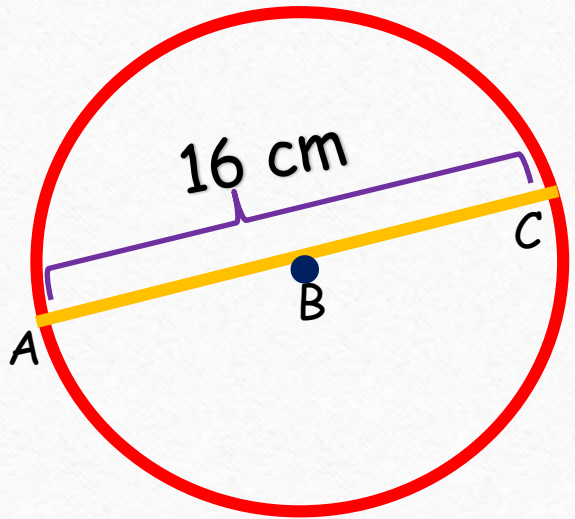
1

Finding a Radius and a Diameter

a. The diameter of a circle is 20 feet. Find the radius.

b. The radius of a circle is 7 meters. Find the diameter.

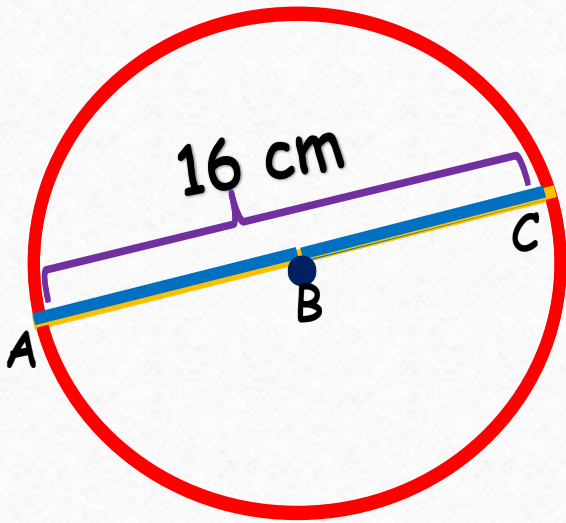
Diameter



AC is the diameter
of the circle.

radius

AB and BC are the radiuses of the circle.



Question

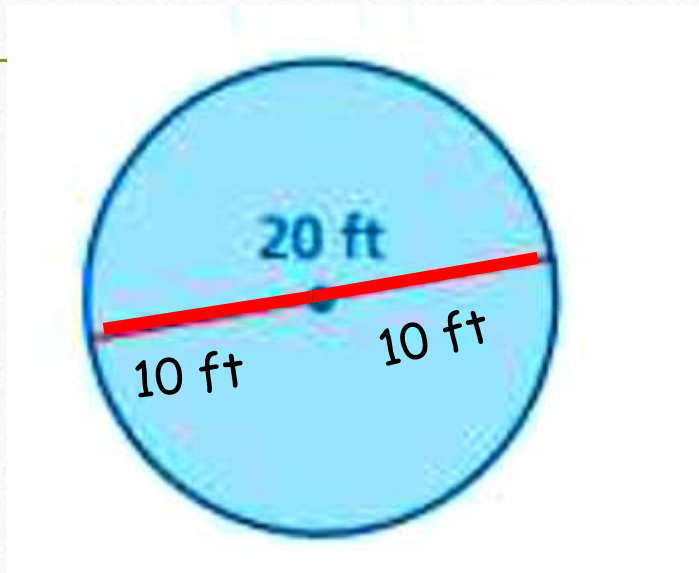
How many
radiuses are
there in a circle?

How to calculate:
(r is the radius/ d is the diameter)

Diameter: $d = 2 \times (r)$

Radius: $r = \frac{d}{2}$

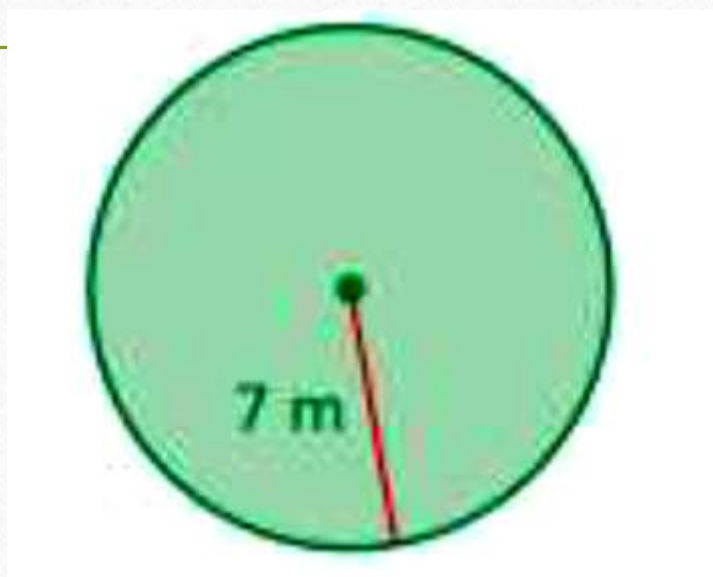
- a. The diameter of a circle is 20 feet. Find the radius.



$$\begin{aligned} r &= \frac{d}{2} \\ &= \frac{20}{2} \\ &= 10 \end{aligned}$$

••• The radius is 10 feet.

b. The radius of a circle is 7 meters. Find the diameter.



$$d = 2r$$

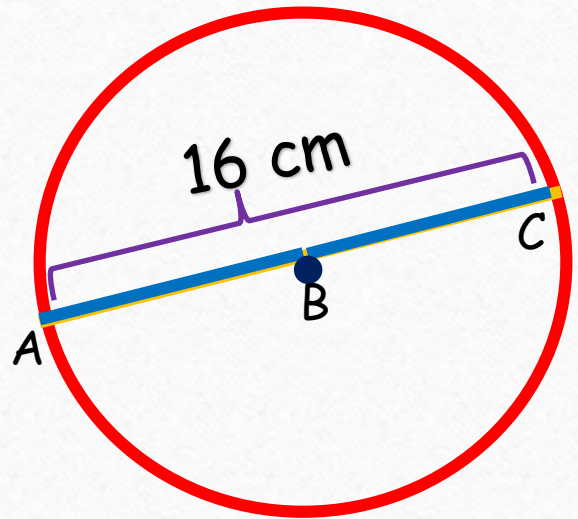
$$= 2(7)$$

$$= 14$$

••• The diameter is 14 meters.

🔴 On Your Own

1. The diameter of a circle is 16 centimeters. Find the radius.



The distance around a circle is "circumference".

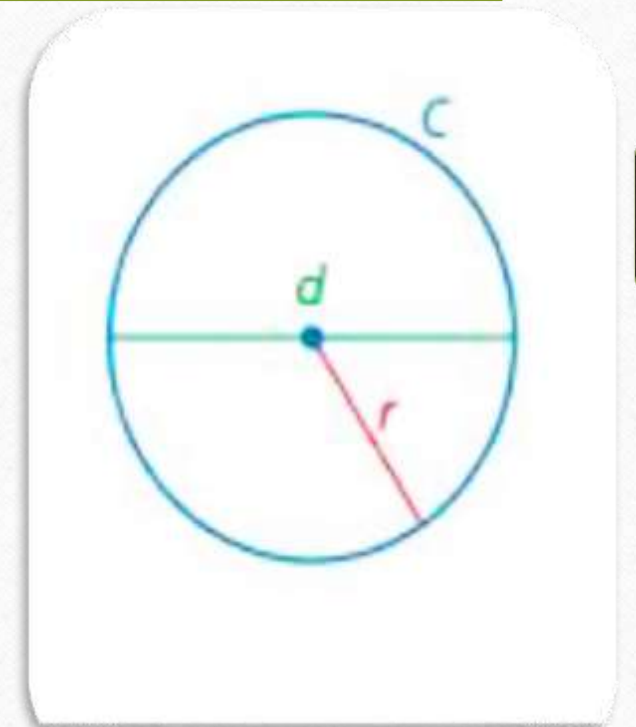
$$\frac{\text{circumference}}{\text{diameter}} = \pi (= 3.14)$$

is the same for all
circles.

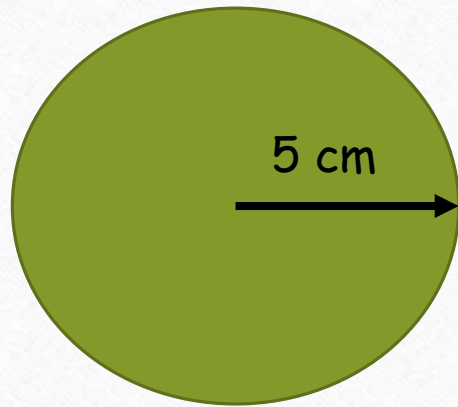
How to calculate the **circumference**:

$$C \text{ (circumference)} = \pi \times d$$

$$C \text{ (circumference)} = \pi \times 2 \times r$$



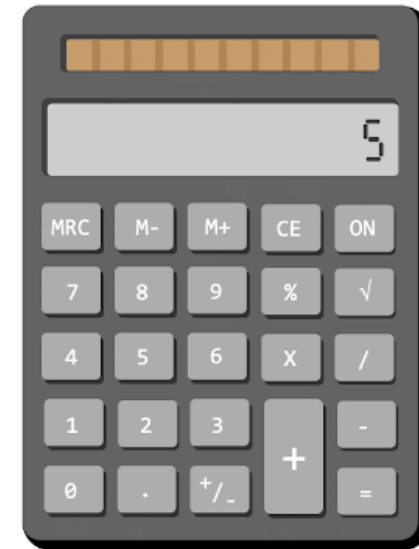
Find the circumference.



$$C \text{ (circumference)} = \pi \times d$$

$$C \text{ (circumference)} = \pi \times 2 \times r$$

$$C = 3.14 \times 2 \times 5 = 31.4$$



Find the circumference.



$d = 4\text{cm}$

$$C (\text{circumference}) = \pi \times d$$

$$C (\text{circumference}) = \pi \times 2 \times r$$

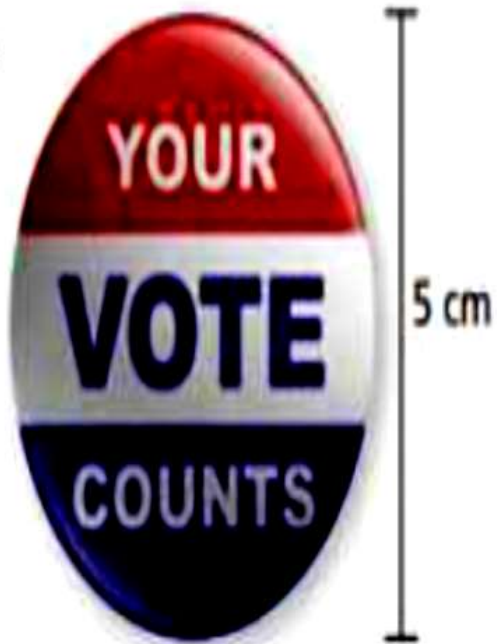
$$C = 3.14 \times 4 = 12.56$$



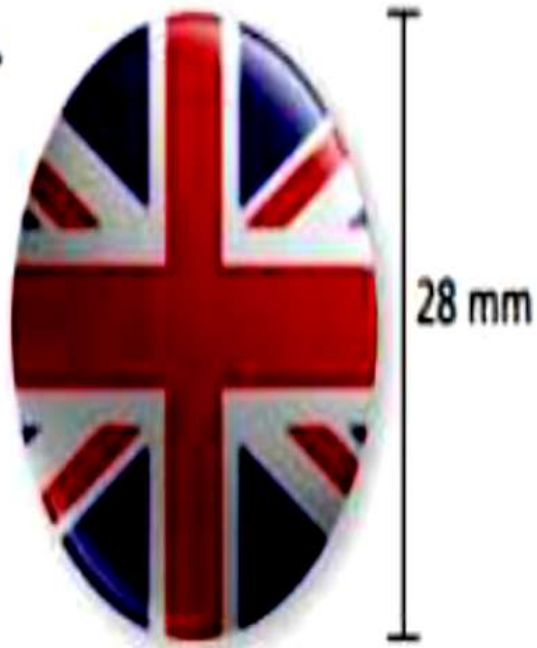
Find the radius of the button.

1

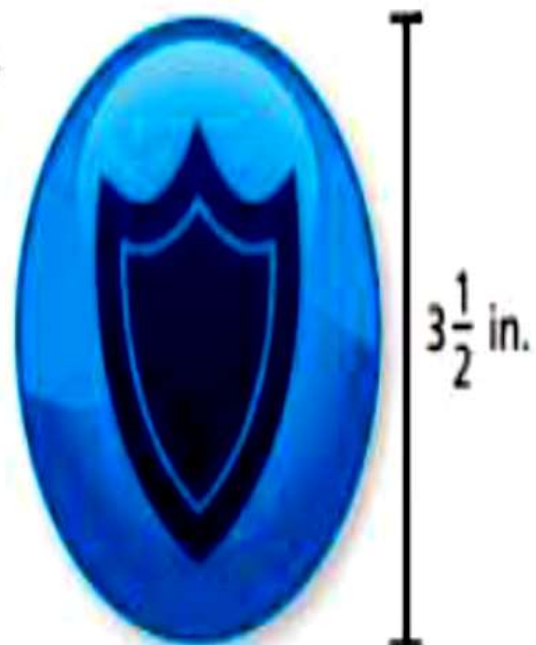
3.



4.

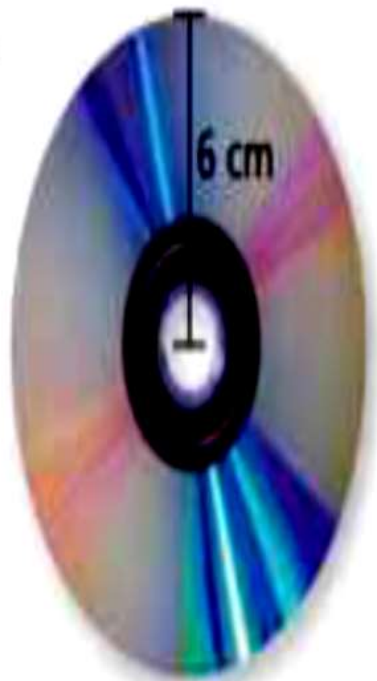


5.

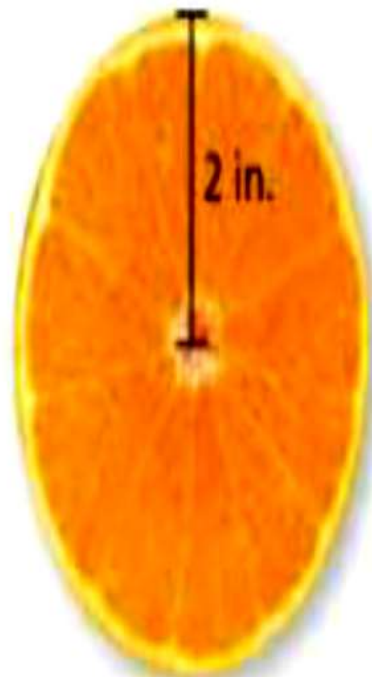


Find the diameter of the object.

6.



7.



8.



Find the circumference of the pizza. Use 3.14 or $\frac{22}{7}$ for π .

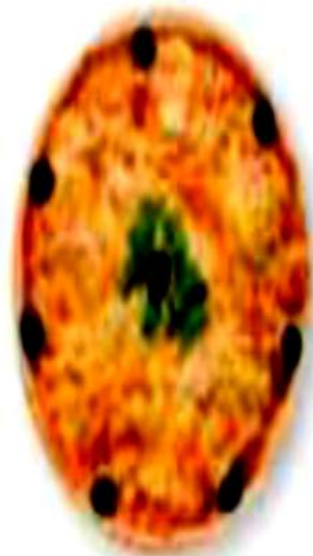
2

9.



10 in.

10.



7 in.

11.



18 in.

BYE

