

# CIRCUMFERENCE

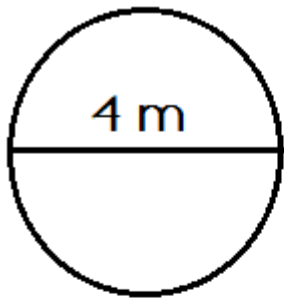
The distance around a circle is called its circumference.

This greek letter is pi.

$$\pi = 3.14$$

To find the circumference of a circle, multiply  $\pi$  to the diameter.

Example:



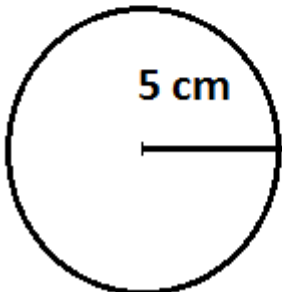
$$\text{diameter} = d = 4 \text{ m}$$

$$\text{Circumference} = \pi \times d$$

$$C = 3.14 \times 4$$

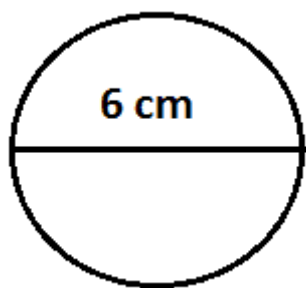
$$C = 12.56 \text{ m}$$

$$\begin{array}{r} 3.14 \\ \times 4 \\ \hline 12.56 \end{array}$$



$$C = 3.14 \times 10 = 31.4 \text{ cm}$$

1. Find the circumference of the following circles.

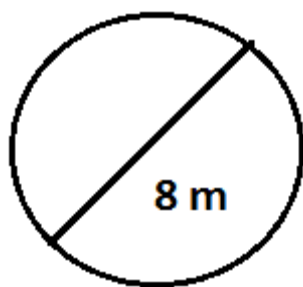


a)

$$C = \pi \times d$$

$$C = \underline{\hspace{2cm}}$$

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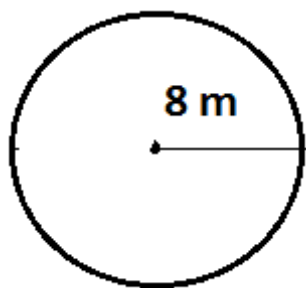


b)

$$C = \pi \times d$$

$$C = \underline{\hspace{2cm}}$$

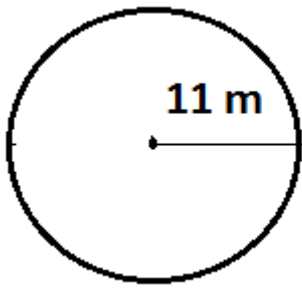
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c)

$$C = \pi \times d$$

$$C = \underline{\hspace{2cm}}$$



d)  $C = \pi \times d$

$C =$  \_\_\_\_\_

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e) A circle with a radius of 3 cm.

$C = \pi \times d$

$C =$  \_\_\_\_\_

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f) A circle with a diameter of 7 cm.

$C = \pi \times d$

$C =$  \_\_\_\_\_

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2. A pool is 6.4 meters in diameter. Barry swims across the centre of the pool three times.



a) What is the total distance he swam?

Answer = \_\_\_\_\_

b) What is the circumference of the pool?

Answer = \_\_\_\_\_

2. What is a circle?

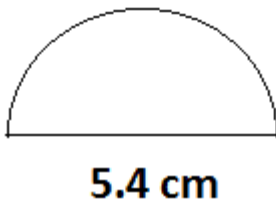
- ☐ A set of all points that are around a single point.
- ☐ A set of all points that are equidistant from another single point.
- ☐ A curve at equal distance from another single point.

3. What is this symbol  $\pi$ ? Select the correct answer.

- |                              |                                     |                                   |                                         |
|------------------------------|-------------------------------------|-----------------------------------|-----------------------------------------|
| <input type="checkbox"/> pie | <input type="checkbox"/> about 3.14 | <input type="checkbox"/> diameter | <input type="checkbox"/> means a circle |
| <input type="checkbox"/> pi  | <input type="checkbox"/> 22/7       | <input type="checkbox"/> radius   |                                         |

4. What is the perimeter of these semi-circles?

a)

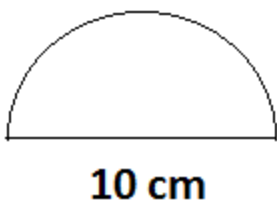


$$C = \pi \times d$$

$$C = \underline{\hspace{2cm}}$$

$$\text{Perimeter of semi-circle} = (C \div 2) + 5.4 =$$

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b)

$$\text{Answer} = \underline{\hspace{2cm}}$$

c)

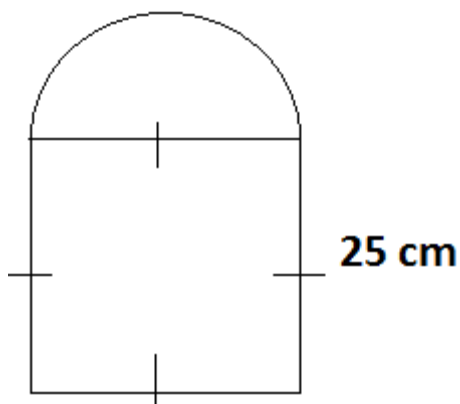


$$C = \pi \times d$$

$$C = \underline{\hspace{4cm}}$$

$$\text{Perimeter of semi-circle} = \underline{\hspace{4cm}}$$

5. Calculate the perimeter of the shape below. (Guided practice)



There are two shapes.

What shapes do you see?

Name them. \_\_\_\_\_ and \_\_\_\_\_

Find the perimeter of each shape:

Shape one: \_\_\_\_\_

Shape two: \_\_\_\_\_

Total= \_\_\_\_\_