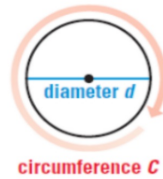


Circumference:

The circumference of a circle is the distance around the circle. For all circles, the ratio of the circumference to the diameter is the same. The ratio is known as π .

Circumference is calculated as follows:

$$C = 2\pi r \quad C = \pi d$$

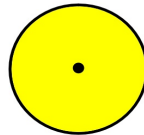


Area of a Circle:

The area of a circle is the number of square units that covers the surface of the area.

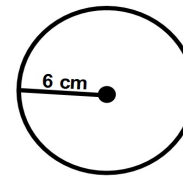
Area is calculated as follows:

$$A = \pi r^2$$



Examples:

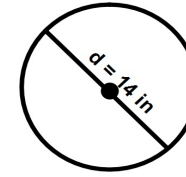
1.



a. Circumference =

b. Area =

2.



a. Circumference =

b. Area =

$$C = 2\pi r$$
$$C = \pi d$$
$$A = \pi r^2$$

3. Find the circumference and area of a circle with a diameter of 10 feet.

a. Circumference =

b. Area =

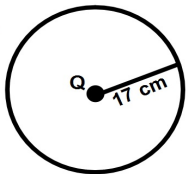
4. Find the circumference and area of a circle with a radius of 12 meters.

a. Circumference =

b. Area =

You Practice:

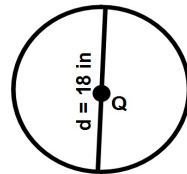
1.



a. Circumference =

b. Area =

2.



a. Circumference =

b. Area =

$$C = 2\pi r$$
$$C = \pi d$$
$$A = \pi r^2$$

3. Find the circumference and area of a circle with a radius of 14 yards.

a. Circumference =

b. Area =

4. Find the circumference and area of a circle with a diameter of 16 feet.

a. Circumference =

b. Area =

Using Area and Circumference:

Use the given Area to find the requested information:

1. The Area is 104 in^2 .
What is the circle's radius?

2. The Area is 96 cm^2 .
What is the circle's diameter?

3. The Circumference is 31.4 m.
What is the circle's Area?

4. The Area is 201 ft^2 .
What is the circle's circumference?