

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:

$$C = 2\pi r$$

$$C = \pi d$$



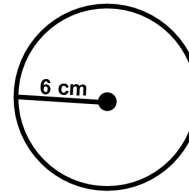
Circumference:

Find the Circumference of the following:

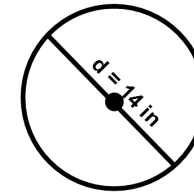
$$C = 2\pi r$$

$$C = \pi d$$

1.



3.



2. Find the circumference of a circle with a diameter of 10 feet.

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

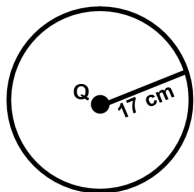
Circumference: You Practice:

Find the Circumference of the following:

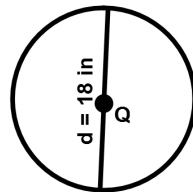
$$C = 2\pi r$$

$$C = \pi d$$

5.



7.



6. Find the circumference of a circle with a radius of 14 yards.

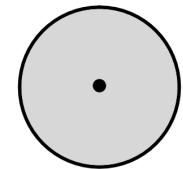
8. Find the circumference of a circle with a diameter of 16 feet.

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:

$$A = \pi r^2$$



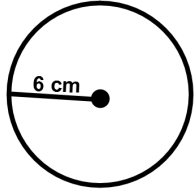
Area of a Circle:

Find the Area of the following:

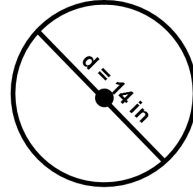
$$C = 2\pi r$$

$$C = \pi d$$

1.



3.



2. Find the Area of a circle with a diameter of 10 feet.

4. Find the Area of a circle with a radius of 12 meters.

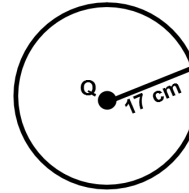
Area of a Circle: You Practice:

Find the Area of the following:

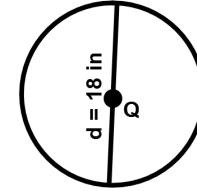
$$C = 2\pi r$$

$$C = \pi d$$

5.



7.



6. Find the Area of a circle with a radius of 14 yards.

8. Find the Area of a circle with a diameter of 16 feet.

Using Area and Circumference:

Use the given Area to find the requested information:

- The Area is 104 in^2 .
What is the circle's radius?
- The Area is 84 ft^2 .
What is the circle's radius?
- The Area is 96 cm^2 .
What is the circle's diameter?
- The Area is 48 in^2 .
What is the circle's diameter?

Using Area and Circumference:

Use the given to find the requested information:

- The Area is 201 ft^2 .
What is the circle's circumference?
- The Circumference is 31.4 m .
What is the circle's Area?
- The Area is 79 cm^2 .
What is the circle's circumference?
- The Circumference is 113 in .
What is the circle's Area?