**Circumference of a Circle**

The distance around a circle is its **circumference**. For any circle, the circumference, *C*, divided by the diameter, *d*, is approximately equal to 3.

For any circle, the ratio

The symbol is a Greek letter that we read as “pi.” = 3.14159263589..., or = 3.14

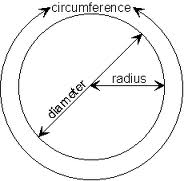
is a decimal that never repeats and never terminates. cannot be written as a fraction. For this reason, we call pi and **irrational number**.

So, the circumference is multiplied by d.

Since the diameter is twice the radius, the circumference is also multiplied by 2*r*.

When we know the radius or diameter of a circle, we can use one of the formulas above to find the circumference of the circle.

When we know the circumference of the circle, we can use a formula to find the diameter. Use the formula:



To isolate *d*, divide each side by .

So,

Example 1: The face of a toonie has a radius of 1.4 cm. Find the diameter and circumference.

Example 2: A scooter tire has a circumference of 27 cm. Find the diameter and radius of the tire to 2 decimal places.