

Vocabulary

Circumference – The distance around a circle

Chord – A line that goes from one point to another on the circle's circumference.

Diameter – The line segment that goes through the center of the circle and has endpoints on the edge of the circle. Diameter is the longest chord

Radius – Distance from the center of the circle to the edge of the circle

Ratio - A way of comparing two numbers – the ratio of a to b is a/b

Pi - The ratio of the circumference to the diameter of a circle; pi is approximately 3.1416

Terminating Decimal – A decimal number that has digits that do not go on forever

Example:

0.25 (it has two decimal digits)

3.0375 (it has four decimal digits)

Recurring Decimal – Recurring or non-terminating decimal has digits that go on forever

Example:

$1/3 = 0.333\dots$ (3 repeats forever), 0.3

Natural number – The whole numbers from 1 upwards: 1, 2, 3, and so on

Whole number – Whole Numbers are simply the numbers 0, 1, 2, 3, 4, 5.... (and so on)

Integer – A positive or negative number with no fractional part

Example:, -3, -2, -1, 0, 1, 2, 3...

Rational number – A number that can be made by dividing two integers.

Example:

0.75 is a rational number ($3/4$)

$1/3 = 0.333$ (Recurring decimal is a rational number)

Irrational number – An Irrational Number is a real number that cannot be written as a simple fraction. The decimal goes on forever without repeating.

Example:

$\pi = 3.1415926535897932384626433832795\dots$ (and more...)

$\sqrt{2} = 1.4142135623730950\dots$

$\sqrt{3} = 1.7320508075688772935274463415059\dots$