

# CLASSIFICATION OF NUMBERS

Just like so many things in our world, like animals, vehicles, and shapes, numbers can be classified according to their properties. Here are the most common classifications of numbers:

## Natural Numbers

These are the numbers that we usually use to count with. If a natural number is divisible by 2, it is even. If not, it is odd.

1, 2, 3, 4, 5, 6...

## Whole Numbers

These are all of the natural numbers, including zero.

0, 1, 2, 3, 4, 5...

## Integers

Integers are positive and negative whole numbers.

-3, -2, -1, 0, 1, 2, 3...

## Rational Numbers

These are all the numbers that can be expressed as the division of integers.

$2/1$ , 0.6,  $3/10$ , 2.957

## Irrational Numbers

These are numbers that cannot be written as a simple fraction or decimal.

$\pi$ ,  $\sqrt{2}$ ,  $e$

## Real Numbers

These are all the numbers that are on a number line (all of the numbers above).

$\pi$ , 23,  $5/7$ , -4, 3.76,  $\sqrt{7}$

## Imaginary Numbers

These numbers are expressed as the sum of a real part and an imaginary part ( $i$ ).

$i$ ,  $5i$ ,  $12.38i$ ,  $-i/2$ ,  $3i/4$

