

Lets talk about numbers.

Symbol	Name	Examples
$\mathbb{N}$	<b>Natural numbers</b> <i>also called counting numbers, start at 1 and continue from there.</i>	1, 2, 3, 4, 5 ...
$\mathbb{N}_0$	<b>Whole numbers</b> <i>include all the natural numbers and zero.</i>	0, 1, 2, 3, 4, 5 ...
$\mathbb{Z}$	<b>Integers</b> <i>include all the whole numbers and their opposites.</i>	... -4, -3, -2, -1, 0, 1, 2, 3 ...
$\mathbb{Q}$	<b>Rational numbers</b> <i>any number that be written as a fraction. This includes all the integers, and both terminating and repeating decimals.</i>	-1.5, -1, 0, 0.25, 1, $1\frac{7}{8}$ , $2.\bar{3}$
$\mathbb{R} - \mathbb{Q}$	<b>Irrational numbers</b> <i>Are numbers that cannot be written as a fraction In other words non-repeating decimals.</i>	$\sqrt{3}$ , $\pi$ , $e$ , $\varphi$
$\mathbb{R}$	<b>Real numbers</b> <i>Include both rational and irrational numbers.</i>	All of the above
$i$	<b>Imaginary Numbers</b> <i>A number when squared gives you a negative answer. It is called imaginary number because there is no real number that when you square it becomes negative.</i>	$i = \sqrt{-1}$

