

All of the numbers on this entire page are REAL NUMBERS!!! : \mathbb{R}

Rational Numbers

\mathbb{Q}

SET OF RATIONAL NUMBERS

Rational Numbers
 $\frac{4}{5}, 1, \frac{2}{3}, 2\frac{8}{9}, 12\frac{2}{16}, 202\frac{31}{129}$

Negative Rational Numbers
 $-\frac{4}{5}, -1, -\frac{2}{3}, -2\frac{8}{9}, -12\frac{2}{16}$

A rational number has one or more numbers that repeat into infinity. Any rational number can be expressed as one integer divided by another integer

Integers
 $\mathbb{Z} = \{\dots, -3, -2, -1, 0, 1, 2, 3, \dots\}$

Natural Numbers
 $\mathbb{N} = \{0, 1, 2, 3, \dots\}$

Irrational Numbers

\mathbb{Q}'

Irrational numbers have non-repeating decimal numbers into infinity.

$\sqrt{2} = 1.414213562\dots$

$\sqrt{3} = 1.732050808\dots$

$\sqrt{5} = 2.236067977\dots$

π
 3.14159
 265358979
 32384626433
 83279502884197
 169399375105820974
 94459230781640628620899
 86280348253421170679821480865
 1328239664709384460995056223172535940
 81780431174502841017073935211055594466254895193
 0201964420110776603346228476482137867831637701901434405
 9027398044592481728272885710817749547901836221331207705342214869

DON'T YOU THINK YOU GUYS SHOULD STOP FIGHTING? YOU'RE BOTH BEING IRRATIONAL.

irrational number $\Rightarrow \sqrt{19} \approx 4.35889\dots$

rational number $\Rightarrow 0.5 = \frac{1}{2}$

\mathbb{R}
 Real Numbers

\mathbb{Q}
 Rational Numbers

\mathbb{Q}'
 Irrational Numbers

$\mathbb{R} = \mathbb{Q} \cup \mathbb{Q}'$

Rational Number

numerator

$2.5 = \frac{5}{2} = \text{Ratio}$

denominator

Irrational Number

$\pi = 3.1415\dots = \frac{?}{?} = \text{No Ratio}$