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

Rational Numbers $\mathbb{Q}$

A rational number has one or more numbers that repeat into infinity.

SET OF RATIONAL NUMBERS

Rational Numbers

$\frac{4}{7}$, 1, $\frac{4}{3}$, $2\frac{8}{9}$, $12\frac{7}{16}$, $202\frac{31}{129}$

Negative Rational Numbers

$-\frac{4}{7}$, -1, $-\frac{4}{3}$, $-2\frac{8}{9}$, $-12\frac{7}{16}$

Any rational number can be expressed as one integer divided by another integer

$\mathbb{Z}$ Integers

$=\{\ldots -3,-2,-1,0,1,2,3,\ldots\}$

$\mathbb{N}$ Natural Numbers

$= \{0,1,2,3,\ldots\}$

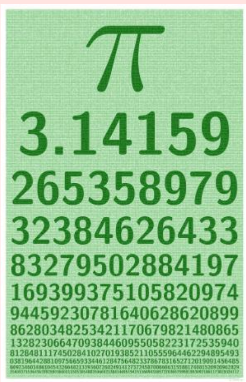
$\mathbb{Q}'$ Irrational Numbers

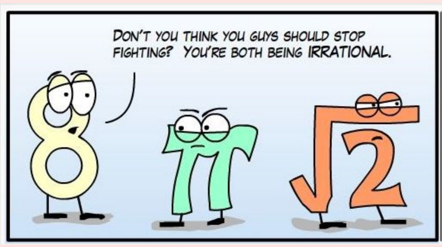
Irrational numbers have non-repeating decimal numbers into infinity.

$\sqrt{2} = 1.414213562\ldots$

$\sqrt{3} = 1.732050808\ldots$

$\sqrt{5} = 2.236067977\ldots$





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

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