

# THE REAL NUMBER SYSTEM

Rational Numbers

Irrational Numbers

Integers

Whole Numbers

Natural Numbers

Counting Numbers

Natural Numbers + Zero

Whole numbers and their opposites

Integers + Fractions

Decimals must be terminating or repeating!

\*

Cannot be expressed as a fraction of integers

Non-repeating and non-terminating decimals

# THE REAL NUMBER SYSTEM

## Rational Numbers

$$8\frac{1}{2} = \frac{17}{2}$$

$$\sqrt{9} = \frac{3}{1}$$

$$0.325 = \frac{325}{1000}$$

$$7.\overline{77} = 7\frac{7}{9}$$

$$-\frac{501}{502}$$

## Integers

$$5 = \frac{5}{1}$$

## Whole Numbers

## Natural Numbers

Counting Numbers

Natural Numbers + Zero

Whole numbers and their opposites

Integers + Fractions

Decimals must be terminating or repeating!

\*

## Irrational Numbers

$$\frac{\sqrt{8}}{2}$$

$$\sqrt{200}$$

$\pi$

$$-2\pi$$

Cannot be expressed as a fraction of integers

Non-repeating and non-terminating decimals