

## Definition

↳ any number that can be written as a fraction

$$\frac{m}{n}, \text{ where } n \neq 0$$

↳ includes repeating and terminating decimals

## Examples

$$\frac{4}{9}$$

$$-8.27384$$

$$-0.\bar{3}$$

$$7\frac{28}{29}$$

$$4.15$$

$$-\frac{7}{2}$$

$$13$$

$$8.\overline{297297}$$

## Rational Numbers

→ temperature

→ stock market

→ baking/cooking

→ measurement (trades, etc) — inches (fraction) — metres (decimal)

"irrational numbers"

$$\pi \doteq 3.141592\dots$$

$$\sqrt{2} \doteq 1.414213\dots$$

$$\sqrt{3} \doteq 1.732050\dots$$

$$\sqrt{5} \doteq 2.236067\dots$$

Use in the Real World

Non-Examples

# Rational or Irrational?

