

# Real Numbers



The rational numbers and the irrational numbers together make up the real numbers. Within the rational numbers, there are additional subcategories: integers, whole numbers, and natural numbers.

## Natural Numbers

Natural numbers are counting numbers.

## Whole Numbers

Whole numbers are the natural numbers and zero.

## Integers

Integers are the natural numbers, their opposites, and zero.  
Integers do not have fractional or decimal parts.

## Rational Numbers

Rational numbers can be written as a fraction of two integers, where the denominator is not 0. When written as decimals, rational numbers either terminate or repeat.

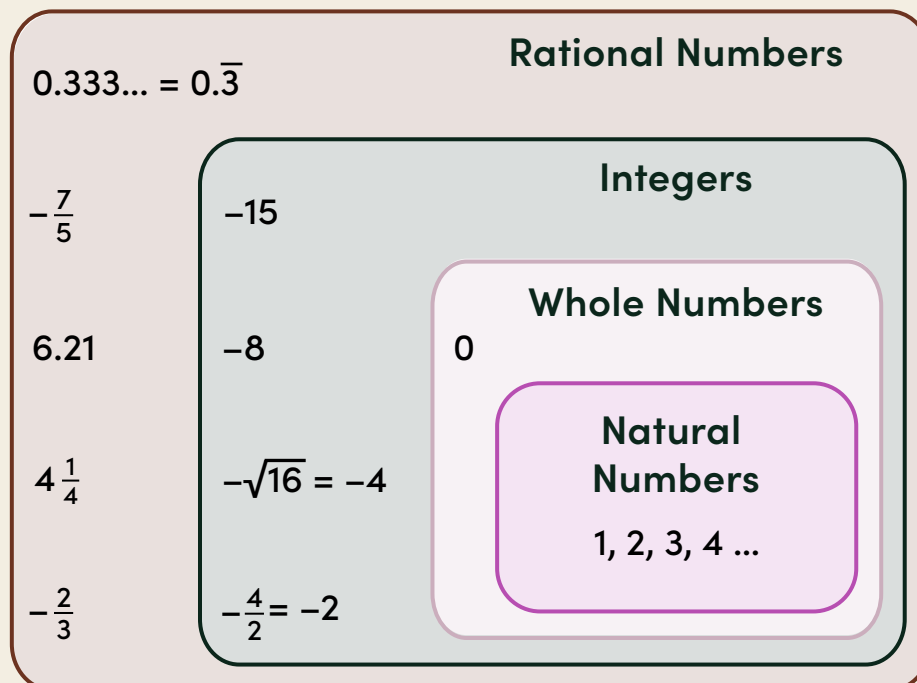
## Real Numbers

The real numbers are made up of the rational numbers and the irrational numbers.

## Irrational Numbers

Irrational numbers are not rational and cannot be written as a fraction. When written as decimals, irrational numbers go on forever without repeating.

## Real Numbers



## Irrational Numbers

$$\sqrt[3]{11}$$

$$\pi$$

$$-5\pi$$

$$-\sqrt{3}$$

