What are the Different Categories of numbers that come under Real Numbers?

Table of Contents

In the previous segment, we saw **Real numbers.** In this segment let us see Different Categories of Numbers that come under Real Numbers.
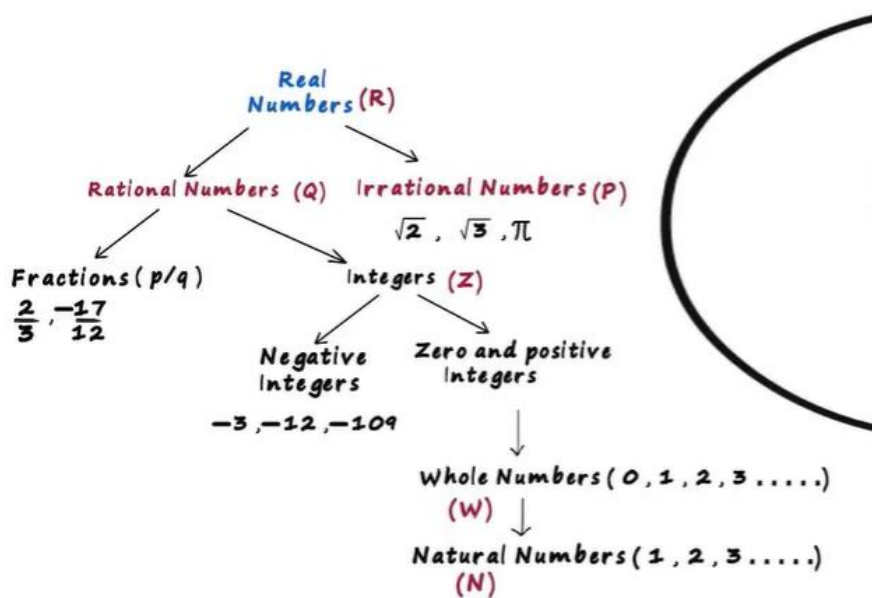
What are the different categories of numbers?

Real numbers can broadly be classified into **Rational Numbers** and **Irrational numbers**.

Rational numbers are broadly classified into two types: **Fractions** (Non-integers) and **Integers**.
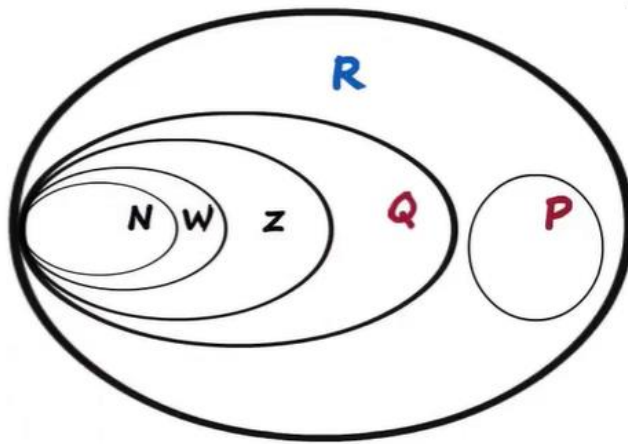
Integers are also broadly divided into two categories: **Negative Integers** and **Whole Numbers**.

The positive integers without zero are called **Natural Numbers**.

Real Numbers

The Venn diagram of the different categories of numbers are as follows:

Venn Diagram of Real Numbers

Which Numbers are not real numbers?

The numbers that are the square root of any negative number is not a real number.

For example,

$\sqrt{-1}, \sqrt{-4}$.

Summary

The numbers that come under Real Number	- Rational Numbers - Irrational Numbers - Integers - Fractions - Whole Numbers - Natural Numbers
The numbers that do not come under Real Number	The square root of any negative number is not Real

What's next?

In the next segment of Class 10 Maths, we will look at **Euclid's Division Lemma**.