Types of Numbers

☞ The numbers can be classified into sets known as the number system. The different types of numbers in maths are:

⇒ **Natural Numbers:** Natural numbers start from 1 to infinity. The set of natural numbers is denoted as **"N"** and it includes **N = {1, 2, 3, 4, 5, ……….}**

Whole Numbers: Whole numbers are known as non-negative integers and it does not include any fractional or decimal part. It is denoted as **"W"** and the set of whole numbers includes **W = {0, 1, 2, 3, 4, 5, ……….}**

Integers: Integers are the set of all whole numbers but it includes a negative set of natural numbers also. **"Z"** represents integers and the set of integers are **Z = {-3, -2, -1, 0, 1, 2, 3}**

Real Numbers: All the positive and negative integers, fractional and decimal numbers without imaginary numbers are called real numbers. It is represented by the symbol **"R"**.

Rational Numbers: Any number that can be written as a ratio of one number over another number is written as rational numbers. This means that any number that can be written in the form of p/q. The symbol **"Q"** represents the rational number.

Irrational Numbers: The number that cannot be expressed as the ratio of one over another is known as irrational numbers and it is represented by the symbol **"P"**.