

A. THE NUMBER SYSTEM

The real number system consists of many different classifications. This section recaps on the types of numbers that you have learnt so far and introduces the concept of non-real/imaginary numbers.

NATURAL NUMBERS

$\{1; 2; 3; 4; \dots\}$

Natural numbers start at 1 and increase in ones up to infinity (∞).

The symbol for a set of natural numbers is: $\mathbb{N}$

WHOLE NUMBERS

$\{0; 1; 2; 3; 4; \dots\}$

Whole numbers start at 0 and increase in ones up to infinity (∞).

The symbol for a set of whole numbers is: $\mathbb{N}_0$

INTEGERS

$\{\dots; -4; -3; -2; -1; 0; 1; 2; 3; 4; \dots\}$

Integers extend whole numbers to include negative numbers.

Integers start at $-\infty$ and increase in ones up to $+\infty$.

The symbol for a set of integers is: $\mathbb{Z}$

RATIONAL NUMBERS

Examples of rational numbers are: $\frac{3}{4}$; 0.5; 0.75

Rational numbers are numbers which can be written as a **fraction** (where the numerator and denominator are integers) or as a **recurring decimal** or as a **decimal that terminates**. In order for a fraction to be a rational number, the numerator and denominator have to be integers and the denominator cannot be equal to zero.

The symbol for a set of rational numbers is: $\mathbb{Q}$

IRRATIONAL NUMBERS

Examples of irrational numbers are: π ; $\sqrt{2}$; $\sqrt[3]{9}$; 2.35408...

Irrational numbers cannot be written as a fraction or with terminating or recurring decimals. In other words irrational numbers are non-recurring and non-terminating.

Examples of irrational numbers are **pi** and the square root of numbers that are not perfect squares or **cube roots of numbers that are not perfect cubes**.

The symbol for a set of irrational numbers is: $\mathbb{Q}'$

NON REAL / IMAGINARY NUMBERS

Examples of non real numbers are: $\sqrt{-2}$; $\sqrt[4]{-9}$; $\sqrt[12]{-25}$

A non real number occurs when you take the even root of a negative number. Non-real numbers are known as complex numbers.

The odd root of a negative number has a real solution. For example: $\sqrt[3]{-8} = -2$ 🧠



Complete Exercise 1 on page 247.

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