

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: $\sqrt{-2}$; $\sqrt[4]{-9}$; $\sqrt[3]{-25}$

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.

Mathematics Paper 1 Scope 2014

Clifford Lane



Mathematics Paper 1 Scope 2014:

The Top Books of the Year Mathematics Paper 1 Scope 2014 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the fascinating narratives that have enthralled audiences this year. Mathematics Paper 1 Scope 2014 :

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The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts.

The Secret History is a exceptional and suspenseful novel that will keep you speculating until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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