

Numbers and Set	
Contents	Learning Outcomes: At the end of the lessons for each topic, you should be able to:
1.1 Real numbers	a) understand the real number system; b) carry out elementary operations on real numbers; c) use the properties of real numbers; d) use the notations for intervals of real numbers; e) use the notation $ x $ and its properties.
1.2 Exponents and logarithms	f) understand integer and rational exponents; g) understand the relationship between logarithms and exponents; h) carry out change of base for logarithms; i) use the laws of exponents and laws of logarithms; j) use the results: for $a > b$ and $c > 1$, $a^c > b^c$ and $\log_c a > \log_c b$ for $a > b$ and $0 < c < 1$, $a^c < b^c$ and $\log_c a < \log_c b$; k) solve equations and inequalities involving exponents and logarithms.
1.3 Complex numbers	l) understand the meaning of the real part, imaginary part, and conjugate of a complex number; m) find the modulus and argument of a complex number; n) represent complex numbers geometrically by means of an Argand diagram; o) use the condition for the equality of two complex numbers; p) carry out elementary operations on complex numbers expressed in cartesian form.
1.4 Sets	q) understand the concept of a set and set notation; r) carry out operations on sets; s) use the laws of the algebra of sets.

1.1 Real Numbers

1. **Natural Number**
 At first numbers were used for counting, and 1, 2, ... were all needed.
 This set of number is called natural number or positive integers.
 $N = \{1, 2, 3, \dots\}$

2. **Integers (\mathbb{Z})**
 $\mathbb{Z} = \{\dots, -3, -2, -1, 0, 1, 2, \dots\}$
 Set of positive integers: $\mathbb{Z}^+ = \{1, 2, 3, \dots\}$
 Thus natural numbers are subset of integers: $N \subset \mathbb{Z}$

3. **Rational Numbers (\mathbb{Q})**
 Numbers that can be expressed in the form $\frac{a}{b}$,
 where a and b are integers, and $b \neq 0$
 $\mathbb{Q} = \left\{ \frac{a}{b} : a, b \in \mathbb{Z}, b \neq 0 \right\}$
 Examples of rational numbers:
 a) 2 can be written as $\frac{2}{1}$

b) -3 is equivalent to $-\frac{3}{1}$

c) 0.25 is equal to $\frac{1}{4}$ [terminating decimal numbers are decimal numbers that end after a number of decimal places]

d) $0.333333\dots = 0.\bar{3} = \frac{1}{3}$ [non-terminating repeating decimal numbers are indefinite decimal numbers with decimal digits repeat in a regular pattern.]

e) $0.16\bar{6} = 0.165165165\dots = \frac{58}{333}$

f) $0.66\bar{6}\dots = 0.\bar{6} = \frac{2}{3}$

Summary:
 Rational numbers are integers, terminating decimal numbers, non-terminating repeating decimal numbers and fractions.

4. **Irrational Numbers (\mathbb{Q}^c)**
 Numbers that cannot be expressed in the form of $\frac{a}{b}$, where a and b are integers and $b \neq 0$.
 Examples of irrational numbers:
 a) $\sqrt{2} = 1.4142135\dots$
 $\sqrt{3} = 1.7320508\dots$

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