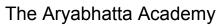


NUMBER System

The mysterious world of numbers...









NATURAL NUMBER



N = {1, 2, 3, 4,....}

WHOLE NUMBER पणं सख्या Numbers from 0 (zero) onward are known as Whole numbers, denoted by 'W'

W = {0, 1, 2, 3, 4,}

INTEGER पूर्णांक संख्या

The collection of all whole numbers and negative of natural numbers are called Integers, Denoted by 'Z' or 'I'.

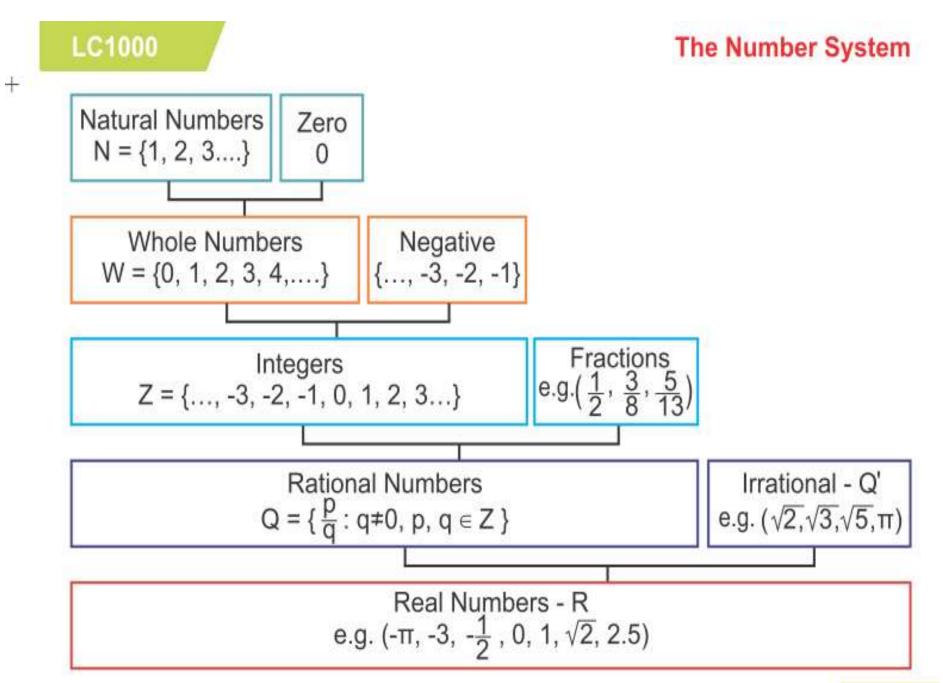
Z or I = {.....
$$-3, -2, -1, 0, 1, 2, 3$$
}

RATIONAL NUMBER रमय सख्या A number which can be expressed as where $q \neq 0$ and q eZ is know as rational number, denoted by 'Q'.

IRRATIONAL NUMBER अपरिमय संख्या A number which can't be expressed in the form of p/q and its decimal representation is non-terminating and non-repeating is known as irrational number. The numbers which are not rational numbers, are called irrational numbers.

REAL NUMBER वास्तविक संख्या

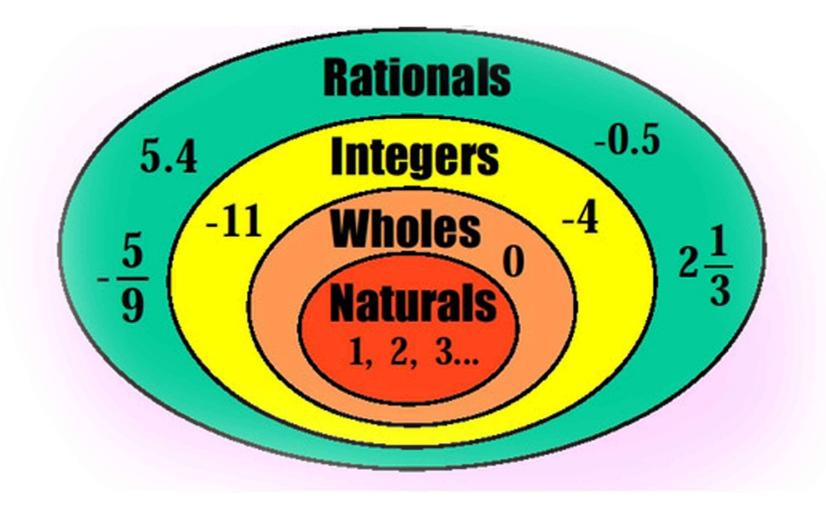
Real numbers can be defined as the union of both the rational and irrational numbers. They can be both positive or negative and are denoted by the symbol "R". All the natural numbers, decimals, and fractions come under this category..

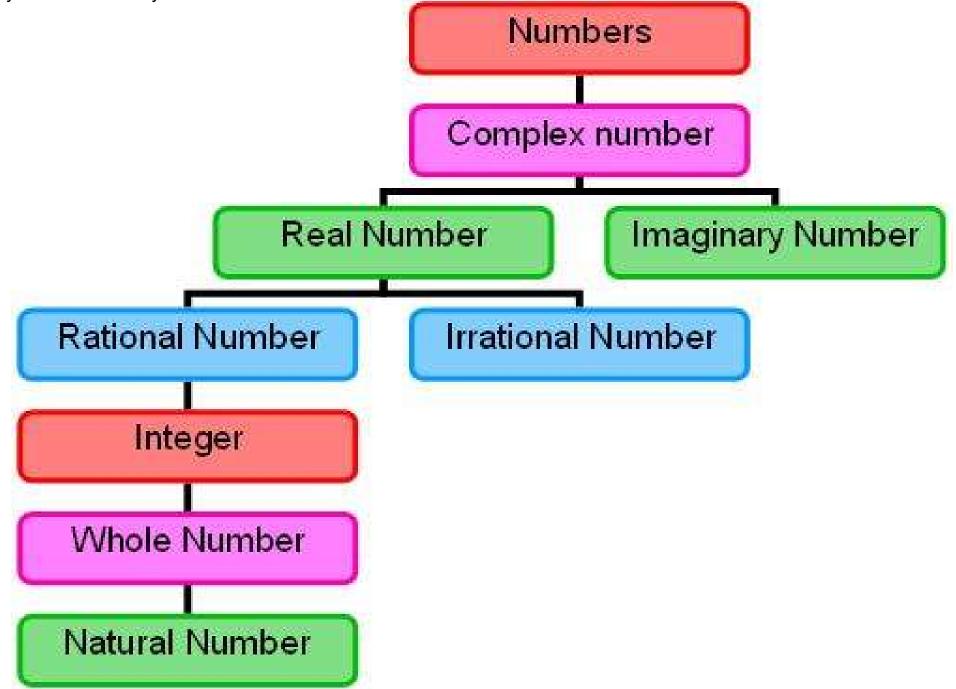


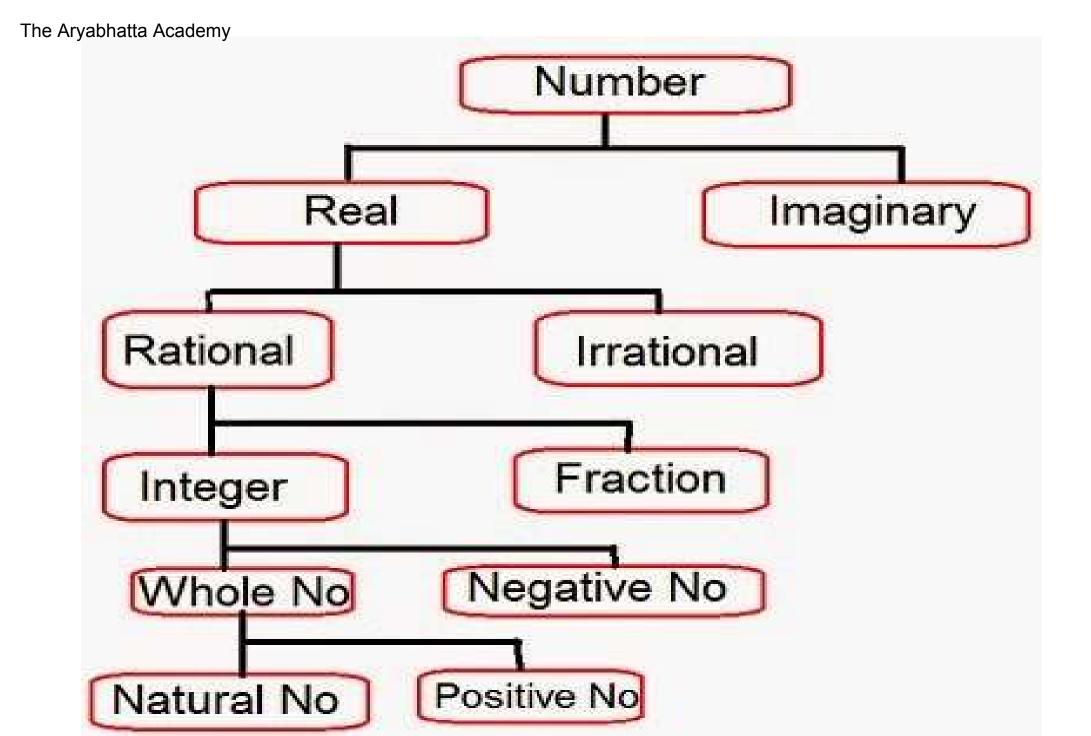




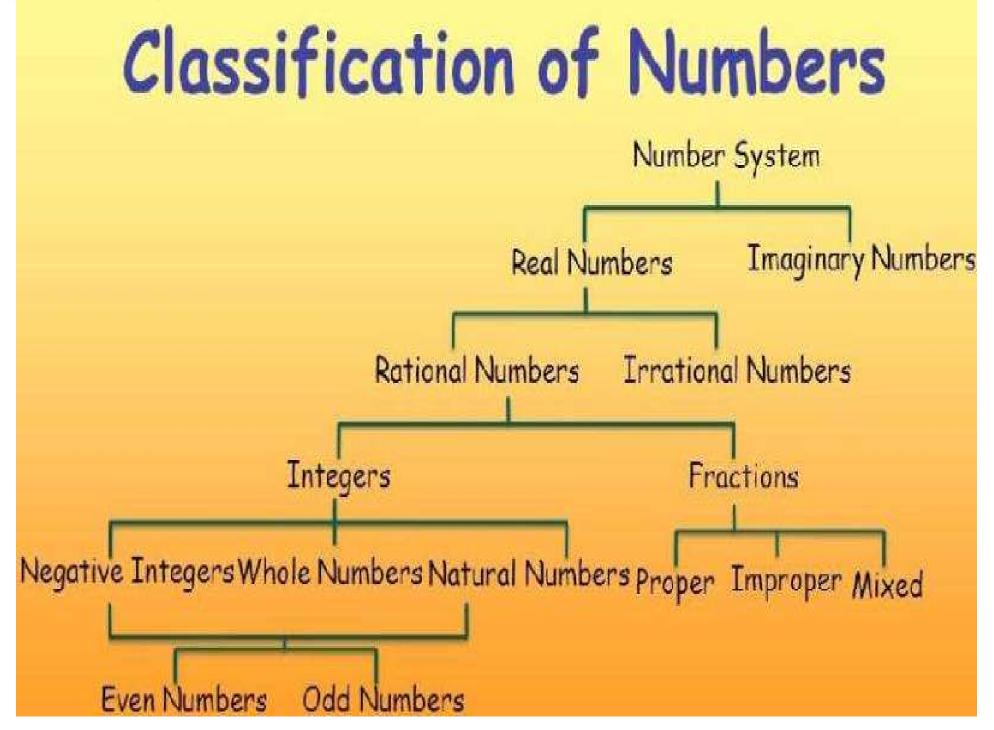
Number System



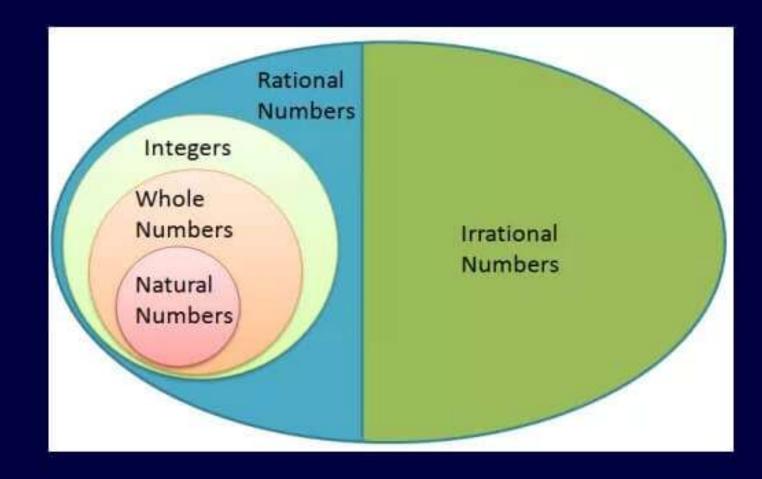




Rational Numbers **Real Numbers** Integers Whole Numbers Irrational Numbers Natural Numbers



Number System & Simplification PDF



The Real Number System

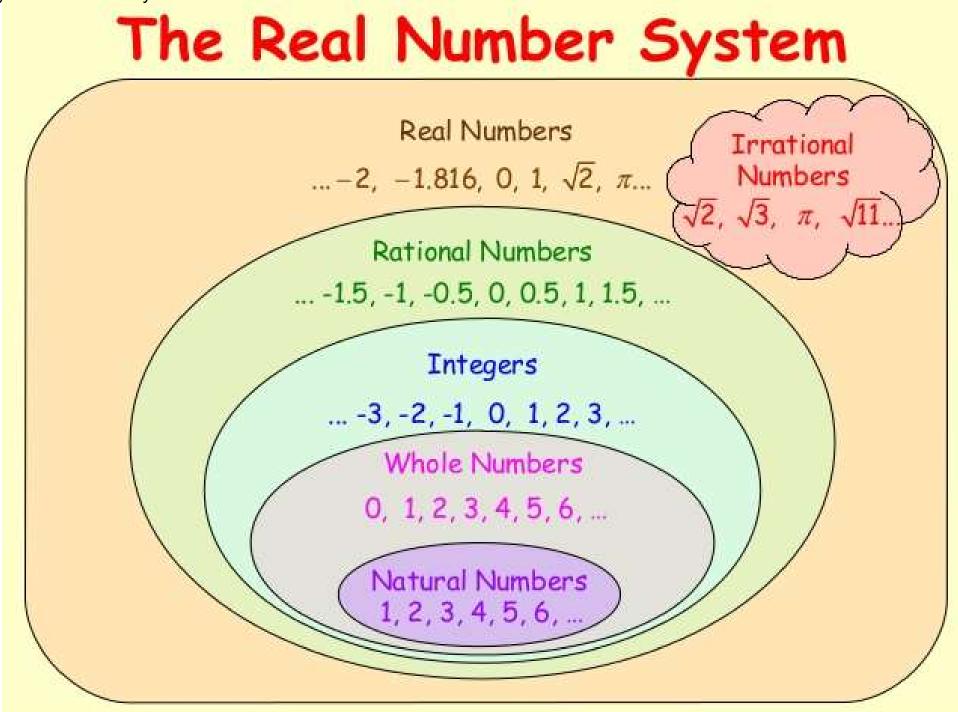
Real Numbers

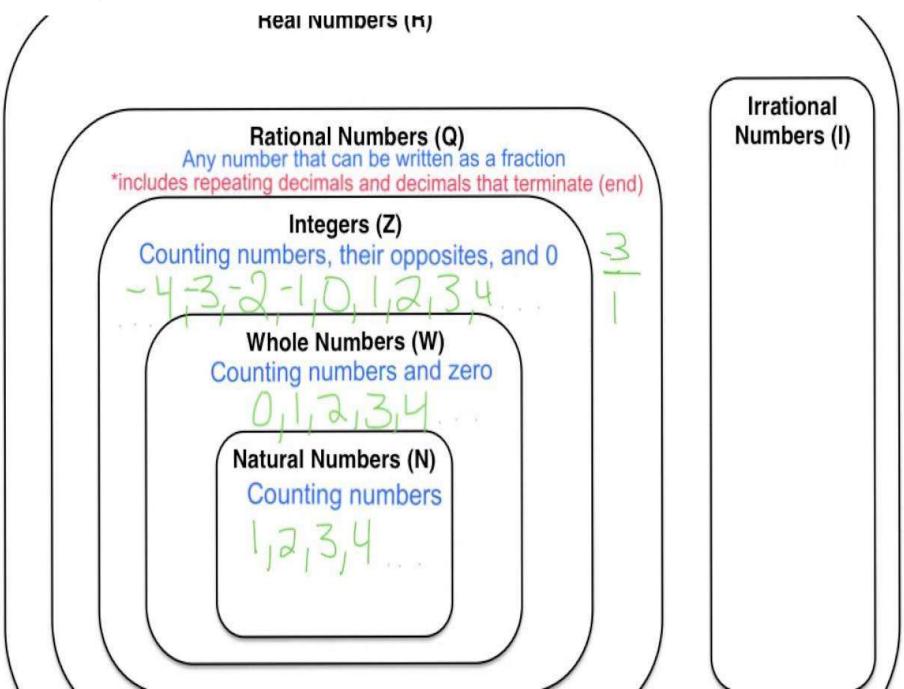
Rational Numbers: Can be expressed as a ratio of two integers.

integers: {....-2,-1,0,1,2,...}

Whole Numbers: {0,1,2,3,...}

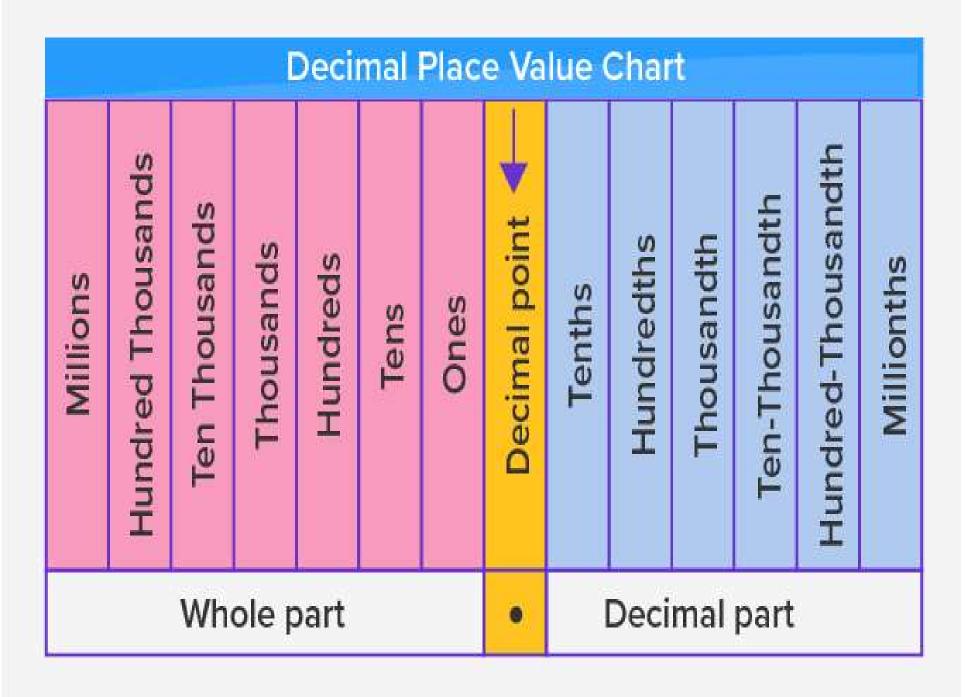
Natural Numbers: {1,2,3,...} Irrational Numbers: Cannot be Expressed as a ratio of two integers.







Indian Numeral System 382405765 Thousands Crores Lakhs Thirty eight crore twenty four lakh five thousand seven hundred and sixty five



	Place value	Number	zeros
	Ones	1	0
	Tens	10	1
	Hundreds	100	2
Thousands	Thousands	1,000	3
	Ten Thousands	10,000	4
	Hundred Thousands	100,000	5
Millions	Million	1,000,000	6
	Ten Million	10,000,000	7
	Hundred Million	100,000,000	8
Billions	Billion	1,000,000,000	9
	Ten Billion	10,000,000,000	10
	Hundred Billion	100,000,000,000	11
Trillions	Trillion	1,000,000,000,000	12
	Ten Trillion	10,000,000,000,000	13
	Hundred Trillion	100,000,000,000,000	14

NUMBER CHART IN DIFFERENT LANGUAGE

Value	0	1	2	3	4	5	6	7	8	9
Western Arabic		1	۲	٣	ź	0	٦	Y	~	٩
Eastern Arabic	198	١	۲	٣	۴	۵	9	V	~	٩
Devanagari	0	8	2	3	8	ц	٤	6	٢	٩
Gujarati	0	٩	5	3	8	પ	S	٩	C	e
Gurmukhi	0	٩	2	З	8	ч	É	2	τ	せ
Limbu										
Bengali	0	5	2	৩	8	Ø	৬	9	ъ	2
Oriya	0	9	9	୩	8	8	٩	୭	Г	C
Telugu	0	0	٩	Э	Ŷ	S	٤	s	σ	٤
Kannada	0	0	9	a	જ	98	ø	2	छ	e
Malayalam	0	مے	2	സ	3	ß	m	୭	വ	ap
Tamil (Grantha)	0	க	2	ГЬ	ዋ	Ē	on	ត	அ	ക്ക
Tibetan	0	2	2	3	4	4	G	2	4	C
Burmese	18	11	II.	11	11	181		11	181	
Thai	0	ଭ	ഉ	ന	ď	æ	હ	ബ	ы С	ŝ
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THANK YOU