

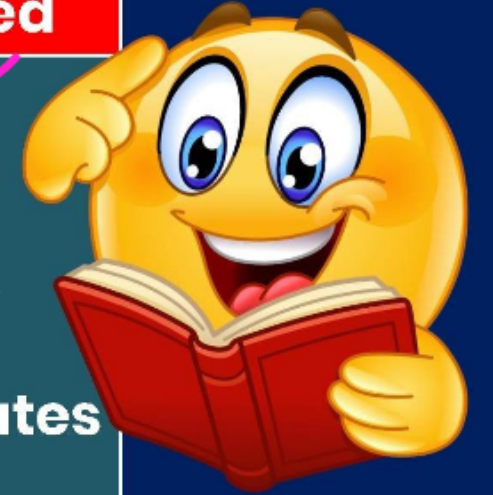
Number System

संख्या पद्धति



Exam Pattern

Part	Subject	Number of Questions	Maximum Marks	Duration / Time Allowed
Part-A	General Intelligence and Reasoning	20	40	60 minutes
Part-B	General Knowledge and General Awareness	20	40	
Part-C	Elementary Mathematics	20	40	
Part-D	English / Hindi	20	40	



There will be negative marking of **0.25** marks for each wrong answer

Speed + Accuracy ✓

2✓
- 0.25X
≈ 50%
26K → ≈ 5K

800
180
50+
80

65+ ✓
80

800 160 marks

Exam Pattern

+LCM HCF
✓ Number Systems, 1-2 Questions

✓ Decimals and Fractions 1-2 Questions

✓ Fundamental arithmetical operations 1-2 Questions

Percentages 1-2 Questions

Ratio and Proportion 1-2 Questions

Averages 1-2 Questions

Interest^{SI} 1-2 Questions

+CI
Profit and Loss 1-2 Questions

Discount 1-2 Questions

Mensuration^{2D & 3D} 1-2 Questions

Time and Distance 1-2 Questions

~~Ratio and Time~~ 1-2 Questions

Time and Work 1-2 Questions

maths → 200

most imp ✓

TOTAL VACANCIES: 25487

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Classification Of Numbers

संख्याओं का वर्गीकरण

(1-2)



Numbers

1

Real no's
वास्तविक संख्यायें

जिनको number line
पर denote किया जा
सकता है।

2

Imaginary no's
काल्पनिक संख्यायें

जो number line
पर नहीं है।

3

Complex no's
सम्मिश्र संख्यायें

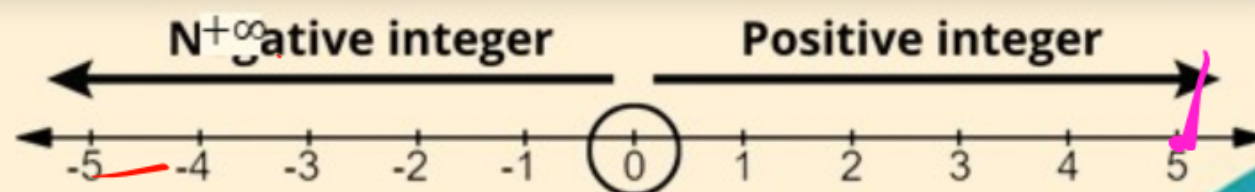
= Real no +
Imaginary no

बढ़ता है।

Ex : $\sqrt{-5}, \sqrt{-14}$

$$\sqrt{-36} = \sqrt{36 \times (-1)} = 6i$$

Ex : $5 + 2i$
 $7 - 3i$



$$\sqrt{36} = 6 \Rightarrow 6 \times 6 = 36$$

$$\sqrt{-36} = \sqrt{36 \times -1} = 6i$$

$$\sqrt{-1} = i \text{ (iota)}$$

$$i \times i = i^2 = -1$$

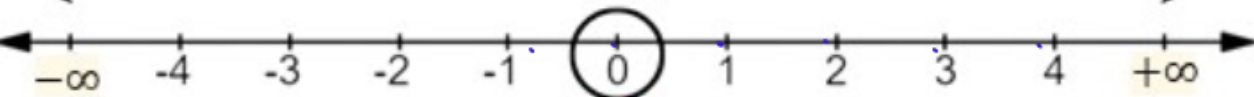


Real numbers

Integer
पूर्णांक

Decimal
दशमलव

नकरात्मक पूर्णांक धनात्मक पूर्णांक
Negative integer Positive integer



neutral
integer

शान्त

Terminating

Ex :

0.37

0.8

0.5192

27.614

अशान्त

Non-terminating

Ex :

0.77777.....

0.819191919.....

0.5143260178....

Decimal/ दशमलव

Rational no's

अपरिमेय संख्या

शान्त दशमलव

Terminating Decimal

Ex : $0.8 = \frac{4}{5}$

$$0.73 = \frac{73}{100}$$

$$5.24 = \frac{524}{100} = \frac{131}{25}$$

$$23.641 = \frac{23641}{1000}$$

अशान्त दशमलव

Non-terminating Decimal

पुनरावृत्ति दशमलव

Non-terminating but Repeating decimal (Recurring decimal)

Ex :

$$0.66666\ldots = 0.\overline{6} = \frac{6}{9} = \frac{2}{3}$$

$$0.717171\ldots = 0.\overline{71} = \frac{71}{99}$$

अनावृत्ति दशमलव

Non-terminating non-Repeating decimal

Ex :

$$0.71342619805\ldots$$

Real numbers

Rational no परिमेय संख्या

वो numbers जिनको $\frac{p}{q}$ form में लिखा जा सकता है।

($p, q \in \text{integers } q \neq 0$)

Ex : $\frac{5}{7}, \frac{31}{4}, -\frac{8}{13}, 82, \frac{22}{7}$

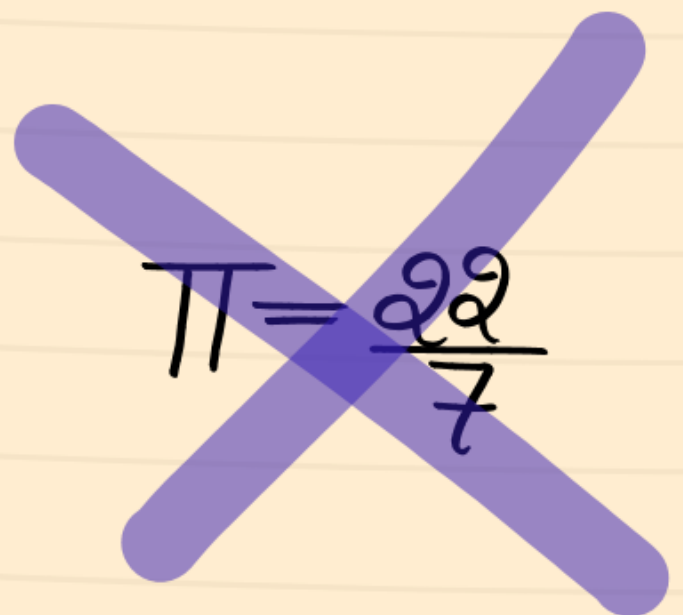
$0.4444\ldots, 0.56888\ldots,$
 $34.737373\ldots, 12, -247, 0$

Irrational no अपरिमेय संख्या

जो Rational नहीं है, जिनको $\frac{p}{q}$ form में नहीं लिखा जा सकता (Real number can't be expressed as a ratio of integers i.e. fraction)

(exact value नहीं निकलती)

Ex : $\sqrt{2}, \sqrt{3}, \sqrt{11}, \sqrt{28}, \sqrt[3]{32},$
 $\pi, 0.64328795\ldots$


$$\pi = \frac{22}{7}$$

$$\pi \approx \frac{22}{7}$$

$$\pi = 3.14\text{---} \neq \frac{p}{q}$$




$$\sqrt{4} = 2 \checkmark$$

$$\sqrt{2} \approx 1.414 \dots$$

$$\cdot x \cdot = 2$$





Rational number = integers + terminating decimal +
non-terminating and repeating decimal

परिमेय संख्या = पूर्णांक + शांत दशमलव + अशांत और आवर्ती
दशमलव



All Non-terminating , Non-repeating (non recurring) decimals are irrational numbers
सभी अशांत , अनावर्ती (गैर आवर्ती) दशमलव अपरिमेय संख्याएँ हैं

$$\pi = 3.141592 \dots$$

$$\sqrt{3} = 1.7320508 \dots$$

$$\sqrt{2} = 1.4142135 \dots$$

1. Which of the following is both rational and an integer?

निम्नलिखित में से कौन-सा परिमेय और पूर्णांक दोनों है?

(SSC GD 2025)

[A] $\frac{1}{2}$ ✗

[C] $\sqrt{2}$ ✗

[B] $\textcircled{3} = \frac{3}{1}$ ✓

[D] π ✗

