



Exams : UPSC, SSC, Railway, Banking, Police Teaching, Defense & All Government Job Recruitment Exams
Study Material : Current Affairs, GK, General Studies, Reasoning, Mathematics, English, Hindi etc.

NUMBER SYSTEM

Number System : $\mathbb{N}, \mathbb{Z}, \mathbb{Q}, \mathbb{R}, \mathbb{C}$ (Number System) < $\mathbb{N} \subset \mathbb{Z} \subset \mathbb{Q} \subset \mathbb{R} \subset \mathbb{C}$:

\mathbb{N} (Number System)

$\mathbb{N} \sim \mathbb{Z}$

\mathbb{N} (Natural Number):-

\mathbb{W} (Whole Numbers):-



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... \mathbb{Z} $\in \mathbb{Z}$ (Integers Number):-

\mathbb{R} $\in \mathbb{R}$ (Real no):-

\mathbb{E} $\in \mathbb{E}$ (Even numbers):<

\mathbb{O} $\in \mathbb{O}$ (Odd numbers):<

\mathbb{C} $\in \mathbb{C}$ (Co-Prime Numbers):<

\mathbb{P} $\in \mathbb{P}$ (Prime Numbers or Composite Number):<



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... $\frac{p}{q}$ \in \mathbb{Q} (Rational Number):-

! ... $\frac{p}{q}$ \in \mathbb{Q} (Irrational Number):-

$\pi, \sqrt{7} \dots$

\mathbb{R} (Real Number):-

$\pi, \sqrt{7} \dots$

\cdot \cdot \cdot \cdot \cdot (Decimal Fraction):-

! $\frac{p}{q}$ \in \mathbb{Q} (Prime Triplet Number):-



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— \mathbb{E} —:-

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• $\mathbb{E}^{\text{®®}}$ $\dots \check{S}^{\text{€}} \text{—}^{\text{—}} \dots \bullet \text{,,} \ddot{Y}^{\circ} - \ddagger \bullet f \bullet$ (Key Concepts & Rules)

- $\mathbb{E} \bullet \mathbb{E}, f \text{,,}$ (Even Numbers):
 - $\ddagger \text{,} \mathbb{E} \bullet \mathbb{E}, f \text{,,}$ (Odd Numbers):
 - $\text{!} \text{,} \text{€} \text{,,} \forall f \mathbb{E}, f \text{,,}$ (Prime Numbers):
 - $\mathbb{E} \bullet \% \text{€}, f \text{,,}$ (Composite Numbers):
 - $\dots \ddagger \text{—} \dots \check{S}^{\text{€}}, f \text{,,}$ (Perfect Number):
-



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Important Formulas

$$\frac{a}{b} \times \frac{c}{d} = \frac{a \times c}{b \times d}$$

$$\frac{a}{b} \div \frac{c}{d} = \frac{a \times d}{b \times c}$$

$$\frac{a}{b} \times \frac{c}{d} = \frac{a \times c}{b \times d}$$

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Short Tricks for Competitive Exams

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Conclusion

FAQ Question and Answer :

Que. $\{f_n\} \subset C[a, b]$ and $\{f_n\}$ is a Cauchy sequence in $C[a, b]$. Then $\{f_n\}$ converges uniformly to a function $f \in C[a, b]$.

Ans.

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जुएतु - ...लुतु > À• (Multiple Choice Questions)

Ques. 1: $\frac{1}{2} \times \frac{3}{4} = ?$ | $\frac{1}{2} \times \frac{3}{4} = ?$ | 12, 15, 18, 21 में से सही उत्तर चुनिए

- ☐
- ☐
- ☐
- ☐

Ques. 2: $\frac{1}{2} \times \frac{3}{4} = ?$ | $\frac{1}{2} \times \frac{3}{4} = ?$ | 1, 3, 2, 5 में से सही उत्तर चुनिए

- ☐
- ☐
- ☐
- ☐

Ques. 3: $\frac{1}{2} \times 40\% = 28$, $\frac{1}{2} \times ? = 28$ में से सही उत्तर चुनिए

- ☐
- ☐
- ☐
- ☐

Ques. 4: $2x + 3y = 12$ ° $-x + y = 4$, $x = ?$

- ☐



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- ☐
- ☐
- ☐

Ques. 5: $\frac{1}{2} \times \frac{3}{4} \times \frac{5}{6} \times \frac{7}{8} \times \frac{9}{10} \times \frac{11}{12} \times \frac{13}{14} \times \frac{15}{16} \times \frac{17}{18} \times \frac{19}{20} \times \frac{21}{22} \times \frac{23}{24} \times \frac{25}{26} \times \frac{27}{28} \times \frac{29}{30} \times \frac{31}{32} \times \frac{33}{34} \times \frac{35}{36} \times \frac{37}{38} \times \frac{39}{40} \times \frac{41}{42} \times \frac{43}{44} \times \frac{45}{46} \times \frac{47}{48} \times \frac{49}{50} \times \frac{51}{52} \times \frac{53}{54} \times \frac{55}{56} \times \frac{57}{58} \times \frac{59}{60} \times \frac{61}{62} \times \frac{63}{64} \times \frac{65}{66} \times \frac{67}{68} \times \frac{69}{70} \times \frac{71}{72} \times \frac{73}{74} \times \frac{75}{76} \times \frac{77}{78} \times \frac{79}{80} \times \frac{81}{82} \times \frac{83}{84} \times \frac{85}{86} \times \frac{87}{88} \times \frac{89}{90} \times \frac{91}{92} \times \frac{93}{94} \times \frac{95}{96} \times \frac{97}{98} \times \frac{99}{100}$

- ☐
- ☐
- ☐
- ☐

Ques. 6: $x = 3^\circ - y = 2, \text{ then } x - y = ?$

- ☐
- ☐
- ☐
- ☐

Ques. 7: $\frac{1}{2} \times \frac{3}{4} \times \frac{5}{6} \times \frac{7}{8} \times \frac{9}{10} \times \frac{11}{12} \times \frac{13}{14} \times \frac{15}{16} \times \frac{17}{18} \times \frac{19}{20} \times \frac{21}{22} \times \frac{23}{24} \times \frac{25}{26} \times \frac{27}{28} \times \frac{29}{30} \times \frac{31}{32} \times \frac{33}{34} \times \frac{35}{36} \times \frac{37}{38} \times \frac{39}{40} \times \frac{41}{42} \times \frac{43}{44} \times \frac{45}{46} \times \frac{47}{48} \times \frac{49}{50} \times \frac{51}{52} \times \frac{53}{54} \times \frac{55}{56} \times \frac{57}{58} \times \frac{59}{60} \times \frac{61}{62} \times \frac{63}{64} \times \frac{65}{66} \times \frac{67}{68} \times \frac{69}{70} \times \frac{71}{72} \times \frac{73}{74} \times \frac{75}{76} \times \frac{77}{78} \times \frac{79}{80} \times \frac{81}{82} \times \frac{83}{84} \times \frac{85}{86} \times \frac{87}{88} \times \frac{89}{90} \times \frac{91}{92} \times \frac{93}{94} \times \frac{95}{96} \times \frac{97}{98} \times \frac{99}{100}$

- ☐
- ☐
- ☐
- ☐

Ques. 8: $A = \frac{2}{3}^\circ - B = \frac{4}{5}, \text{ then } A : B = ?$

- ☐



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- ☐
- ☐
- ☐

Ques. 9: $\frac{1}{2}$ of a number is 4, 6, 9. Find the number.

- ☐
- ☐
- ☐
- ☐

Ques. 10: A number is 8 less than 4. Find the number.

- ☐
- ☐
- ☐
- ☐

Ques. 11: A number is 1 less than 9. Find the number.

- ☐
- ☐
- ☐
- ☐

Ques. 12: A number is 9 less than 7. Find the number.



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Ques. 12: Which of the following is not a part of the Indian Constitution?

- ☐ A. Fundamental Rights
- ☐ B. Fundamental Duties
- ☐ C. Directive Principles of State Policy
- ☐ D. None of the above

Ques. 13: Which of the following is not a part of the Indian Constitution?

- ☐ A. Fundamental Rights
- ☐ B. Fundamental Duties
- ☐ C. Directive Principles of State Policy
- ☐ D. None of the above



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Ques. 16: $f(x) = x^2 + 2x + 3$, $g(x) = x^2 + 4x + 6$ are two functions. Find the value of $f(2) + g(2)$.

- ☐
- ☐
- ☐
- ☐

Ques. 17: A number is divided by 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100. The remainder is 1. Find the number.

- ☐
- ☐
- ☐
- ☐

Ques. 18: $x = 3$, $y = 4$ are two numbers. Find the value of $(x^2 + y^2)/(x - y)$.

- ☐
- ☐
- ☐
- ☐

Ques. 19: A number is divided by 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100. The remainder is 1. Find the number.

- ☐
- ☐
- ☐



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Ques. 20: यदि $\frac{1}{2}x = \frac{1}{3}y$ और $\frac{1}{3}y = \frac{1}{4}z$ है, तो $\frac{x}{z}$ का मान ज्ञात करें।

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FAQ Question and Answer :

Que. यदि $\frac{1}{2}x = \frac{1}{3}y$ और $\frac{1}{3}y = \frac{1}{4}z$ है, तो $\frac{x}{z}$ का मान ज्ञात करें।

Ans.

Que. यदि $\frac{1}{2}x = \frac{1}{3}y$ और $\frac{1}{3}y = \frac{1}{4}z$ है, तो $\frac{x}{z}$ का मान ज्ञात करें।

Ans.

Que. यदि $\frac{1}{2}x = \frac{1}{3}y$ और $\frac{1}{3}y = \frac{1}{4}z$ है, तो $\frac{x}{z}$ का मान ज्ञात करें।

Ans.

Que. यदि $\frac{1}{2}x = \frac{1}{3}y$ और $\frac{1}{3}y = \frac{1}{4}z$ है, तो $\frac{x}{z}$ का मान ज्ञात करें।

Ans.



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Que. 2 $\ddot{Y} - \dots \dot{f} \in ; f, \sim f \parallel \mathbb{E}^M$

Ans.

$\ddot{Y} - \dots \dot{f} \in ; f, p/q - \frac{3}{4} \dots \bullet \mathbb{E}^M \tilde{Z} \mathbb{E}^M \mathbb{E}, q$

$\mathbb{S}^{\odot} f - \dot{z} - \dot{z} - \bullet \mathbb{E}^M \mathbb{E}^M$

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