



airGurukul

UPP CONSTABLE 2026

LIVE

वर्दी 2.0

MATHS

NUMBER SYSTEM

संख्याओं का वर्गीकरण



24 JUNE 2026



07:00 PM



Classi
face Value
Please

AADIL SIR

WELCOME TO



Preparing Bharat, Empowering Futures

airGurukul Institute for Career Growth

www.airgurukul.com

Powered by Prince Edutech Private Limited

Disclaimer

This presentation, lecture, and all related study materials have been created and published by **airGurukul Institute for Career Growth**, a unit of **Prince Edutech Private Limited**, for **educational and informational purposes only**. While every effort has been made to ensure the accuracy and reliability of the content, **airGurukul** does not guarantee that the information is absolutely current or free from error. Examination patterns, syllabus, and official notifications are subject to change by respective authorities, and students are strongly advised to **verify details from official sources before making any decisions**.

All third-party materials including logos, questions, references, or data used within this content are **solely for educational illustration and fair-use academic discussion**. Their ownership and copyrights remain with their respective owners. **airGurukul** shall not be held liable for any loss, damage, or consequence arising directly or indirectly from the use of this information.

By attending this session, viewing this content, or using the provided materials, the viewer acknowledges and agrees to this disclaimer. **Unauthorized recording, copying, or redistribution of this content in any form is strictly prohibited**.

Unit Digit | इकाई अंक |

Unit Digit or Last Digit

इकाई अंक | अंतिम अंक

32

465

Without Power

बिना घात वाले

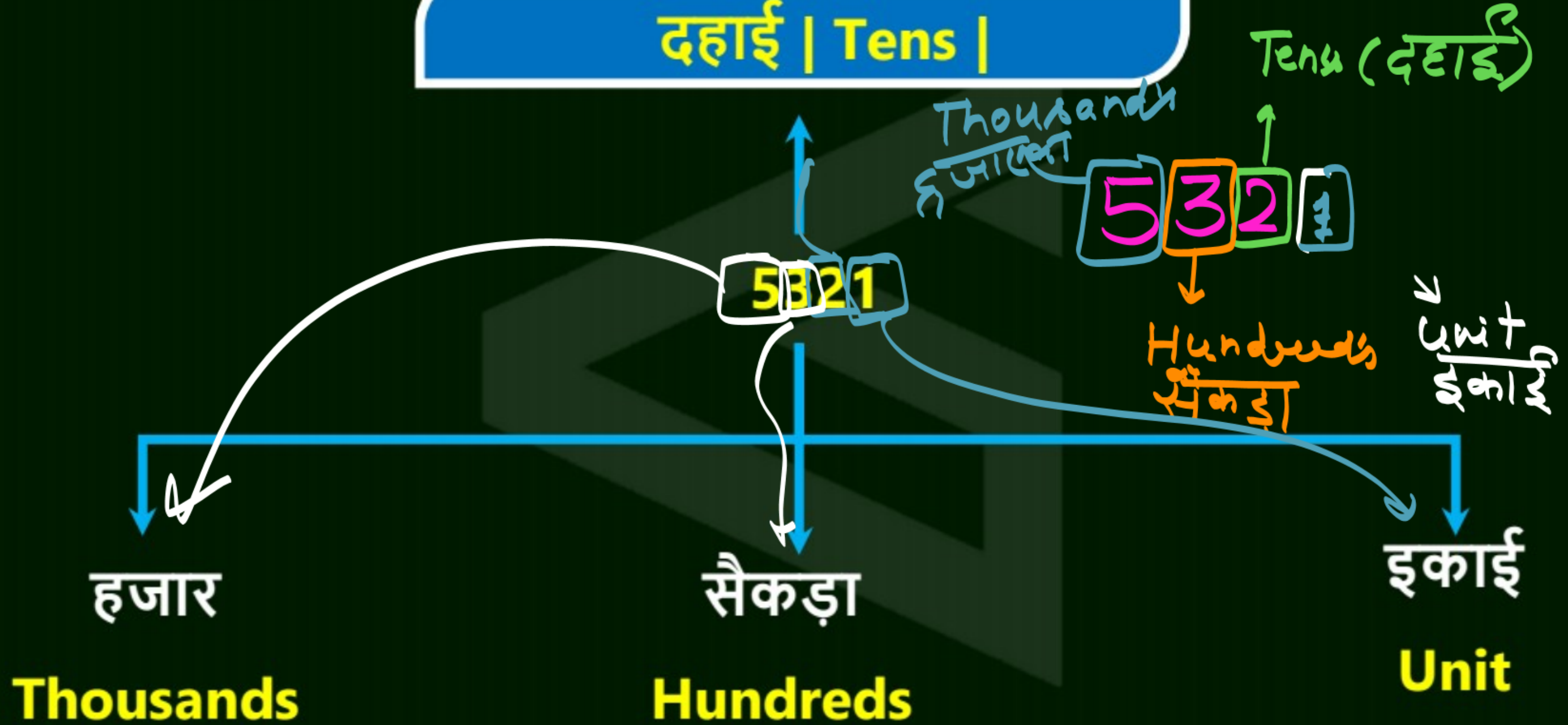
$$24 \times 25 + 32 - 28$$

With Power

घात वाले

29⁵⁵, 35⁶⁵⁷, 216⁸⁹⁷

दहाई | Tens |



Without Power | बिना घात वाले |

1. Addition
(योग)

$$\textcircled{1} \quad 32 + 33 = \textcircled{5}$$

2. Subtraction
(घटाव)

$$689 - 732$$

3. Multiplication
(गुणा)

$$44 \times 689$$

4. Mixed
(मिश्रित)

$$33 + 64 - 32 + 67 \times 68$$

- 4 का इकाई अंक = 4
- 43 का इकाई अंक = 3
- 123 का इकाई अंक = 3
- 1234 का इकाई अंक = 4
- 45678 की इकाई अंक = 8

(1) Addition (जोड़)

$$\rightarrow 1 + 3 = 4$$

$$\rightarrow 42 + 57 = 99$$

$$2 + 7 = 9$$

$$\rightarrow 431 + 675 =$$

$$6$$

$$\rightarrow 675 + 432 + 789 =$$

$$166$$

$$\rightarrow 6451 + 7893 + 4381 + 7980 =$$

$$1 + 3 + 1 + 0 = 5$$

Ans

(2) Subtraction (घटाव)

$$\rightarrow 46 - 34 = 6 - 4 \quad (2) \quad (2)$$

$$\rightarrow 7895 - 32/3 = 5 - 3 \quad (2)$$

$$\rightarrow 4678 - 3259 = 18 - 9 \quad (9)$$

$$\rightarrow 54321 - 463 = 11 - 3 \quad (8)$$

$$11 - 3 = 8$$

$$18 - 9 = 9$$

(3) Multiplication (गुणा)

$$\rightarrow 3 \times 2 = 6$$

$$\rightarrow 23 \times 52 = 3 \times 2 \quad (6) \quad (6)$$

$$\rightarrow 123 \times 543 \times 678 = 3 \times 3 \times 8 \quad 2 \quad (2)$$

$$\rightarrow 436 \times 537 \times 123 \times 326 = 6 \times 7 \times 3 \times 6 = 2 \times 8 \quad (6)$$

$$\rightarrow 4321 \times 5435 \times 6789 \times 7856 = 0$$

$$2 \times 8 = 6$$

$$\begin{array}{l} 5 \times 5 \quad (5) \\ 5 \times 7 \quad (5) \end{array}$$

$$5 \times \text{सम (Even)} = 0$$

$$5 \times 2 = 0$$

$$5 \times 4 = 0$$

$$5 \times 6 = 0$$

$$5 \times \text{Odd (विषम)} = 5$$

$$\begin{array}{l} 5 \times 1 = 5 \\ 5 \times 3 = 5 \end{array}$$

Whole No.

0, 1, 2, 3, 4, ... 110

1 1 1 1

$$\text{Sum} = \frac{110}{2} \times 111$$

5

7. प्रथम 111 पूर्ण संख्याओं के योग का इकाई अंक ज्ञात करें।

Find the units digit of the sum of the first 111 whole numbers.

a) 5

b) 0

c) 1

d) 2

योग = औसत * कुल संख्या में

$$\frac{F+L}{2}$$

8. प्रथम 98 प्राकृतिक संख्याओं का योग ज्ञात करें। और उसका इकाई अंक ज्ञात करें।

Find the sum of the first 98 natural numbers and determine its units digit.

a) 9

b) 5

c) 1

d) 0

$n = 98$

योग = $\frac{98 \times 99}{2}$

1

योग = $\frac{n(n+1)}{2}$

9. $61 \times 62 \times 63 \times 64 \times \dots \times 69$ का इकाई अंक ज्ञात करें।

Find the unit digit of $61 \times 62 \times 63 \times 64 \times \dots \times 69$.

☒ a) 0

b) 1

c) 5

d) 7

5 × सम (Even) = 0

10. अगर $(459 \times 46 \times 280 \times 484)$ के गुणनफल में इकाई का अंक 2 है, तो 'a' के स्थान पर कौन-सा अंक होगा?

if the unit digit in the products $(459 \times 46 \times 280 \times 484)$ is 2, the digit in place of a is?

a) 3

b) 5

☒ c) 7

d) 8

$$9 \times 6 \times a \times 4$$

4

$$6 \times a =$$

17

20

2

11. $433 \times 456 \times 43$ N का इकाई अंक $(N + 2)$ है, तो $N = ?$

$433 \times 456 \times 43$ N का इकाई अंक $(N + 2)$ है, तो $N = ?$

a) 5

b) 8

c) 3

d) 6

$$\begin{array}{rcl}
 3 \times 6 \times 7 & = & N+2 \\
 8 \times 7 & = & 7+2 \\
 3, 4, 0 & & 3, 8, 5, 0 \\
 & & 5, 0, 4, 0
 \end{array}$$

12. $\underline{526} \times \underline{728} \times \underline{354} + \underline{457} - \underline{789}$

- ☒ a) 0
- b) 1
- c) 2
- d) 3

$$6 \times 8 \times 4 + 7 - 9$$

$$2 + 7 - 9$$

$$9 - 9 = \boxed{0}$$

Factorial

! or L

$$0! \text{ or } \underline{0} = \textcircled{1}$$

$$1! \text{ or } \underline{1} = \textcircled{1}$$

$$2! = 2 \times 1$$

$$3! = 3 \times 2 \times 1 = \textcircled{6}$$

$$4! = 4 \times 3 \times 2 \times 1 = 2\textcircled{4}\textcircled{4}$$

$$5! = 5 \times 4 \times 3 \times 2 \times 1 = 12\textcircled{0}\textcircled{0}$$

$$\underline{6} = 0$$

$$\underline{7} = 0$$

$$\underline{8} = 0$$

13. $1! + 2! + 3! + 4! + 5!$ का इकाई अंक ज्ञात करें।

Find the units digit of $1! + 2! + 3! + 4! + 5!$.

a) 0

b) 1

c) 2

~~d) 3~~

$$1 + 2 + 6 + 4 + 0$$

$$13$$

$$3$$

14. $1! + 2! + 3! + 4! + \dots + 3333!$ का इकाई अंक

ज्ञात करें।

Find the units digit of $1! + 2! + 3! + 4! + \dots + 3333!$.

a) 0

b) 1

c) 2

d) 3

$$1 + 2 + 6 + 4 + 0 + 0 + \dots$$

3

$$2^{31 \div 4} = 2^3 \quad (8)$$

4 से विभाजित का नियम $\rightarrow$ दी गई संख्या के अंतिम 2 अंक
4 से पूर्णतः विभाजित हों

अंतिम 2 अंक
4

Last 2 digit
4

Ex $\rightarrow$ $79835 \times \frac{4}{5} \times (R=3)$

$6985 \frac{92}{4} \quad R=0$

$7^{65 \div 4} = 7^1 \quad (7)$

Note: $\rightarrow$ जब Power को 4 से भाग देते हैं तो शेष जो नयेगा वो Power में आयेगा

$7^{68 \div 4} R=0 \quad (7^4)$

Questions Based on Unit Digit

इकाई अंक पर आधारित प्रश्न

$$2^3 \div 4 = 2^3 \Rightarrow 8$$

1. 2^{31} का इकाई अंक ज्ञात करें।

Find the unit digit of 2^{31} .

a) 2

b) 4

c) 8

d) 0

2. 57^{658} का इकाई अंक ज्ञात करें।
Find the unit digit of 57^{658} .

- a) 3
- ~~b) 9~~
- c) 8
- d) 1

1
658
4

$$7^2 = 7 \times 7$$

(9)

3. ~~666666~~ का इकाई अंक ज्ञात करें।
Find the units digit of 666666.
- a) 2
 - b) 4
 - ~~c) 6~~
 - d) 8

$$6^2 = 36$$

$$4 \overline{) 66}$$

0, 1, 5, 6 → Same

0 1 5 6

4. $2^{51} \times 3^{67} \times 5^{80}$ का इकाई अंक ज्ञात करें।

Find the unit digit of $2^{51} \times 3^{67} \times 5^{80}$.

- a) 0
- b) 2
- c) 5
- d) 3

$$\begin{array}{l}
 2^{51 \div 4} \times 3^{67 \div 4} \times \boxed{5^{80}} \\
 \downarrow \\
 2^3 \times 3^3 \times 5 \\
 \downarrow \\
 8 \times 7 \times 5 \\
 \downarrow \\
 10
 \end{array}$$

5. $675^{489} \times 3256^{7823} \times 5789^{3452}$ का इकाई अंक ज्ञात करें।
Find the unit digit of $675^{489} \times 3256^{7823} \times 5789^{3452}$.

a) 0

b) 5

c) 8

d) 2

7-11

Vardi 2.0

499

25/Jul

$$5 \times 6 \times 9^4$$

0

THANK YOU



Preparing Bharat, Empowering Futures

airGurukul Institute for Career Growth
www.airgurukul.com

Follow Us |       

Powered by **Prince Edutech Private Limited**