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# UPP CONSTABLE 2026

LIVE

## वदी 2.0

## MATHS

## UNIT DIGIT

### (इंकाई का अंक)



25 JUNE 2026

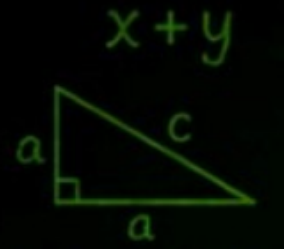


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AADIL SIR



$$a^2 + b^2 = c^2$$

$$x^2 - y^2 = (x+y)(x-y)$$

$$\sqrt{x}$$

$$\pi$$

$$x^2 - y^2 = (x^2 + y)$$

$$x^2 + y^2 = 2(x+y)$$

$$x^2 - y^2 = (x+y)$$



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## Questions Based on Unit Digit

इकाई अंक पर आधारित प्रश्न



1.  $2^{31}$  का इकाई अंक ज्ञात करें।

Find the unit digit of  $2^{31}$ .

a) 2

b) 4

c) 8

d) 0

$$3^{58 \div 4} = 3^2 \Rightarrow 9$$

R

$$2^3 = 8$$

2.  $57^{658}$  का इकाई अंक ज्ञात करें।

Find the unit digit of  $57^{658}$ .

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

4) 58 (14)  
56  
②

Last 2 digit  
4

$7^2 = 7 \times 7$  49 9  
Ans



0, 1, 5, 6

→ Same

↓ ↓ ↓ ↓  
0 1 5 6

(~~2~~10) 357

= 0

(~~3~~1) 9873

= 1

$5^1 = 5$   
 $5^2 = 25$   
 $5^3 = 125$   
 $5^4 = 625$   
 $5^5 = 3125$

3.  $666^{666}$  का इकाई अंक ज्ञात करें।

Find the units digit of ~~666666~~.

a) 2

b) 4

~~c) 6~~

d) 8

666<sup>666</sup>

$6^1 = 6$   
 $6^2 = 6 \times 6 \Rightarrow 36$   
 $6^3 = 6 \times 6 \times 6 \Rightarrow 216$   
 $6^4 = 6 \times 6 \times 6 \times 6 \Rightarrow 1296$

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

$$2^{51/4} \times 3^{67/4} \times 5^{80}$$

$$2^3 \times 3^3 \times 5$$

$$8 \times 7 \times 5$$

0, 2, 4, 6, 8

$$5 \times \text{सम (Even)} = 0$$



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

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

0

$$\frac{52}{4} = R=0$$

6.  $2358^{195} \times 1377^{877} \times 596^{598} \times 13895^{238}$  का इकाई अंक ज्ञात करें।

Find the unit digit of  $2358^{195} \times 1377^{877} \times 596^{598} \times 13895^{238}$

$$8^3 \times 7^1 \times 6 \times 5$$

a) 0

b) 5

c) 8

d) 2



$$4^2 = 16$$

$$4^4 = 256$$

सम = 6

विषम = 6

7.  $111^{111} \times 222^{222} \times 333^{333} \times 444^{444} \times 666^{666}$  का इकाई अंक ज्ञात करें।

Find the unit digit of  $111^{111} \times 222^{222} \times 333^{333} \times 444^{444} \times 666^{666}$

a) 1

☒ b) 2

c) 3

d) 4

$$1 \times 2^2 \times 3^1 \times 4^4 \times 6$$

$$4 \times 3 \times 6 \times 6$$

$$2 \times 6$$

$$2$$

8.  $(123 \times 456 \times 789 \times 671)^{768}$  का इकाई अंक ज्ञात करें।

Find the unit digit of  $(123 \times 456 \times 789 \times 671)^{768}$

a) 3

b) 4

c) 5

d) 6

$R=0$

$(3 \times 6 \times 9 \times 1)^{\frac{768}{4}}$

$(2)^4 = 2 \times 2 \times 2 \times 2$

16 6



9. यदि  $N = (307)^{38} + (524)^{20}$  है, तो N का इकाई अंक ज्ञात करें।

If  $N = (307)^{38} + (524)^{20}$ , find the unit digit of N.

a) 6

~~b) 5~~

c) 3

d) 4

$$N = 7^9 + 4^4$$

$$49 + 6$$

(54)

10.  $(633)^{24} - (279)^{38} + 266^{54}$  में इकाई अंक ज्ञात करें।

Find the unit digit in  $(633)^{24} - (279)^{38} + 266^{54}$ .

a) 8

b) 7

c) 6

d) 5

$$3^4 = \underbrace{3 \times 3}_9 \times \underbrace{3 \times 3}_9$$

$$1 - 1 + 6$$

**6**

$$3^4 - 9^2 + 6$$

$$81 - 81 + 6$$

$$0 + 6 = \mathbf{6}$$



11.  $(164)^{169} + (333)^{357} - (727)^{726}$  में इकाई अंक ज्ञात करें।

Find the unit digit in  $(164)^{169} + (333)^{357} - (727)^{726}$ .

a) 8

b) 6

c) 5

d) 1

$$4^1 + 3^1 - 7^2$$

$$17 - 9 = 8$$

$$17 - 9 = 8$$

12.  $2^{3^4^5}$  में इकाई अंक ज्ञात करें।

Find the unit digit  $2^{3^4^5}$

a) 1

b) 2

c) 3

d) 4

$$\begin{array}{r} 0 \times 999 \\ 4 \times 999 \\ \hline 4 \end{array} \quad \textcircled{0}$$

$$2^{\textcircled{3^4^5}} \quad \frac{3^4^5}{4} = \textcircled{1}$$

$$2^1 = \textcircled{2}$$

$$4893 \quad \frac{(4 \times 3 \times 2 \times 1)}{4}$$

$$2^4 = \boxed{16} \quad \textcircled{6}$$

Ans



13.  $2^{3^4}$  में इकाई अंक ज्ञात करें।

Find the unit digit  $2^{3^4}$

- a) 1
- b) 2
- c) 3
- d) 4

$$2^{3^4} = 2^{81}$$

$$81 \div 4$$

$$21 = 2$$

$$(2^3)^4$$

$$12 \div 4$$

$$3 = 3$$

$$3^4 = 3 \times 3 \times 3 \times 3$$

$$81$$

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**Number of Trailing Zeroes**

**शून्यों की संख्या**

$$10 \times 12 \times 18$$

$$10 \rightarrow 2 \times 5$$

$$12 \rightarrow 2^2 \times 3$$

$$18 \rightarrow 2 \times 3^2$$

$$2 \rightarrow 4 \text{ times}$$

$$5 \rightarrow 1 \text{ time}$$

① Avg

$$5 \times 2 \times 2 \times 2$$





1.  $15 \times 12 \times 18 \times 20 \times 24$  में दायाँ ओर से शून्यों की संख्या ज्ञात करें।

$$15 \times 12 \times 18 \times 20 \times 24$$

$15 = 3 \times 5$    
  $12 = 2^2 \times 3$    
  $18 = 2 \times 9$    
  $20 = 2^2 \times 5$    
  $24 = 2^3 \times 3$

Find the number of zeros from the right in

$$15 \times 12 \times 18 \times 20 \times 24.$$

a) 2

b) 4

c) 5

4) 8

Pair  $\rightarrow \boxed{2 \times 5} = 10 \text{ ①}$

$\boxed{\begin{matrix} 2 \times 5 \\ 2 \times 5 \end{matrix}} = 100 \text{ ②}$

$2 \rightarrow 8 \text{ times}$   
 $5 \rightarrow 2 \text{ times}$   
                      
 ②      2 zeros



$$\begin{array}{r|l} 5 & 100 \\ \hline 5 & 20 \\ & 4 \end{array}$$

$$\begin{array}{r|l} 2 & 100 \\ \hline 2 & 50 \\ 2 & 25 \\ 2 & 12 \\ 2 & 6 \\ & 3 \end{array}$$

2.  $1 \times 2 \times 3 \times 4 \times 5 \times 6 \times \underline{\hspace{2cm}} \times 98 \times 99 \times 100$   
में दायीं ओर से शून्यों की संख्या ज्ञात करें।

Find the number of zeros at the end of the product  $1 \times 2 \times 3 \times 4 \times 5 \times 6 \times \underline{\hspace{2cm}} \times 98 \times 99 \times 100$ .

- a) 20
- b) 24
- c) 38
- d) 30

$$\begin{array}{r|l} 5 & 100 \\ \hline 5 & 20 \\ & 4 \end{array} \quad (24)$$

$$\begin{array}{l} 20 \times 5 \rightarrow 24 \text{ times} \\ 97 \text{ times} \\ \hline 24 \text{ Ans} \end{array}$$

3.  $1 \times 2 \times 3 \times 4 \times \underline{\hspace{2cm}} \times 200$  में दायीं ओर से शून्यों की संख्या ज्ञात करें।

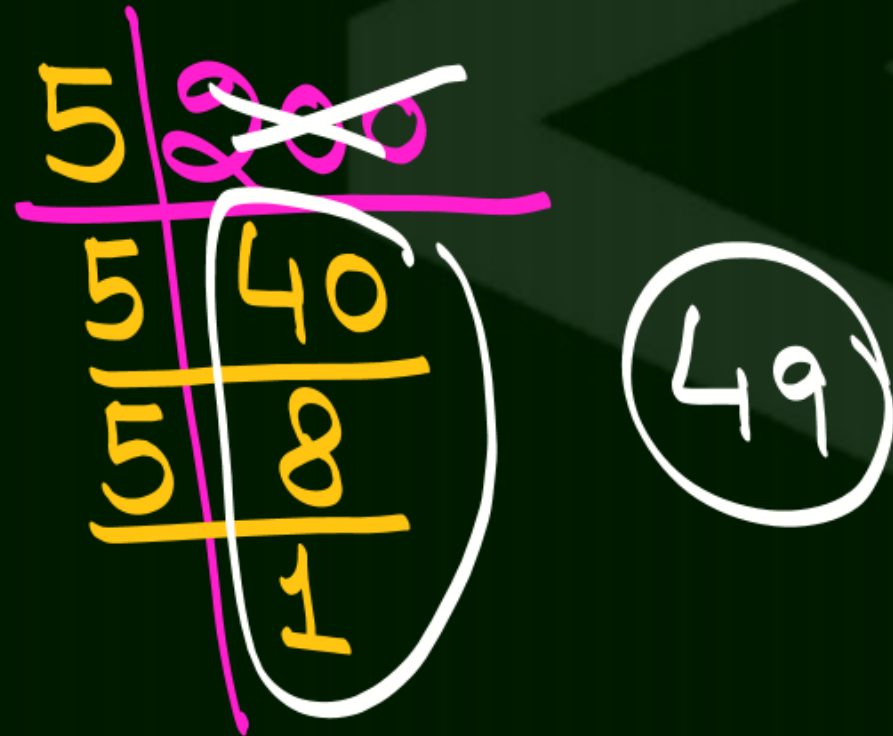
Find the number of zeros at the end of the product  $1 \times 2 \times 3 \times 4 \times \underline{\hspace{2cm}} \times 200$ .

a) 48

☒ b) 49

c) 50

d) 51



Handwritten prime factorization of 200:

$$200 = 2 \times 2 \times 2 \times 5 \times 5$$

The number of pairs of (2, 5) is 2, which gives 2 zeros. The remaining 2s are 2, which gives 2 more zeros. Total zeros = 2 + 2 = 4.

Handwritten answer: 49



|   |                |
|---|----------------|
| 5 | <del>300</del> |
| 5 | 60             |
| 5 | 12             |
|   | 2              |

74

4.  $1 \times 2 \times 3 \times 4 \times 5 \times \underline{\hspace{2cm}} \times 300$  में दायीं ओर से शून्यों की संख्या ज्ञात करें।

Find the number of zeros at the end of the product  $1 \times 2 \times 3 \times 4 \times 5 \times \underline{\hspace{2cm}} \times 300$ .

a) 72

☒ b) 74

c) 80

d) 90

Vardi 2.0  
after - 499

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