

Letter to Whole Number

(पूर्ण संख्या के लिए अक्षर)

diffⁿ

× Z G
3 0 20
C A T

F O L I
6 15 12 9

(O L I) - F
(L I F) ~ 0

No. of letters

अक्षरों की संख्या

GAGAN → 5

Sum

योग

→ 3+1+20
→ 24+26+7
→ 24+1+7
→ 3+26+20

Multiplication

गुणा

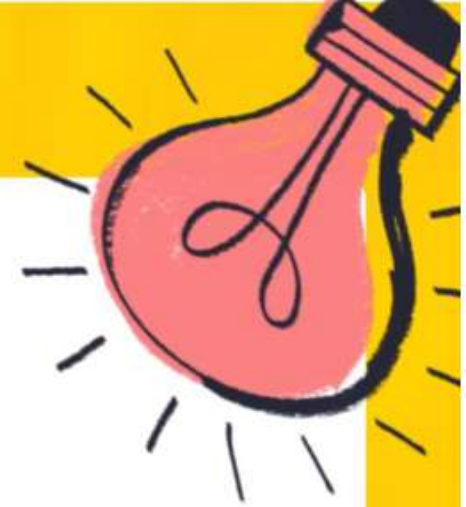
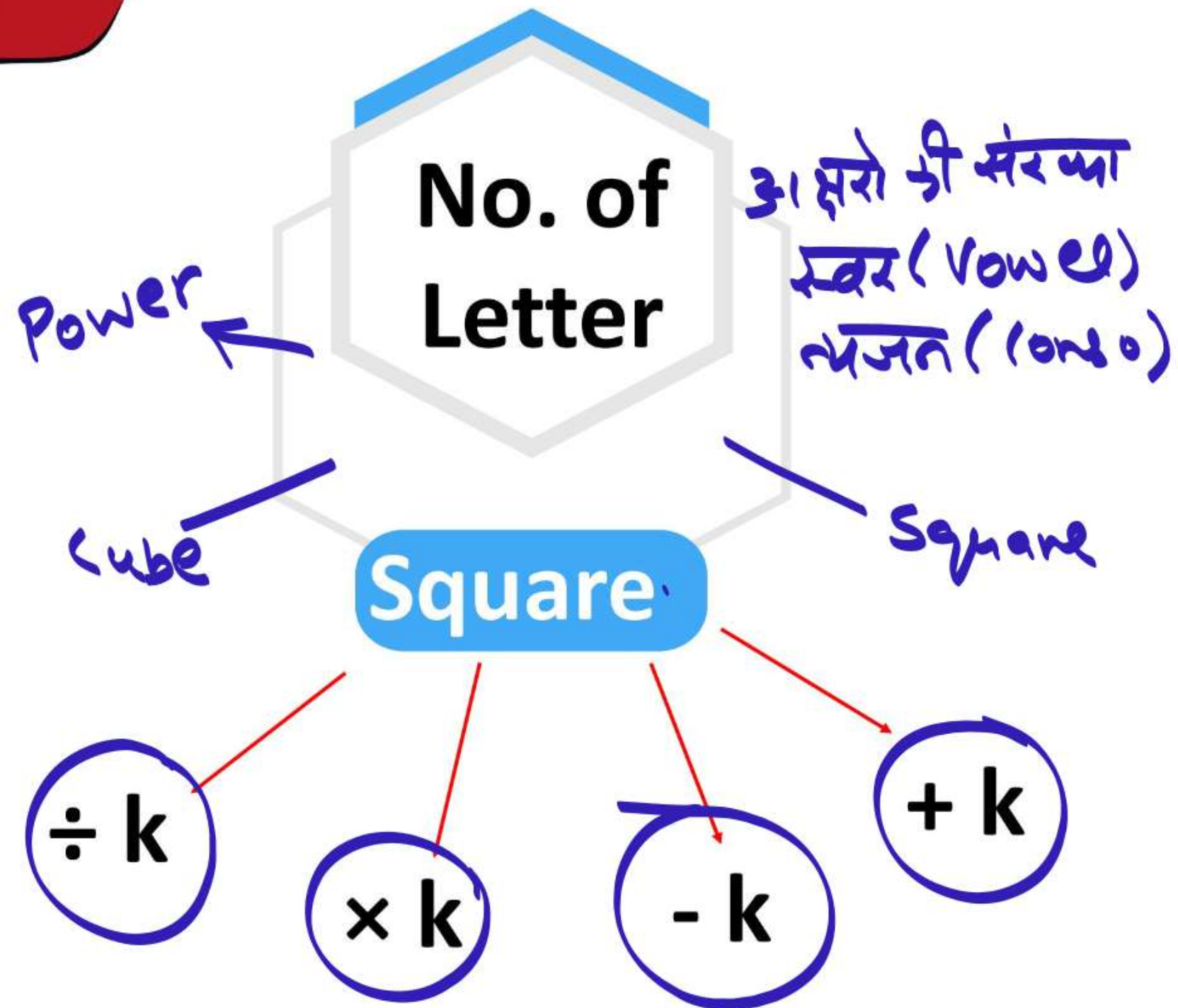
CAT → (3 × 1 × 20)

→ 24 × 26 × 7
→ 24 × 1 × 7
→ 3 × 26 × 20

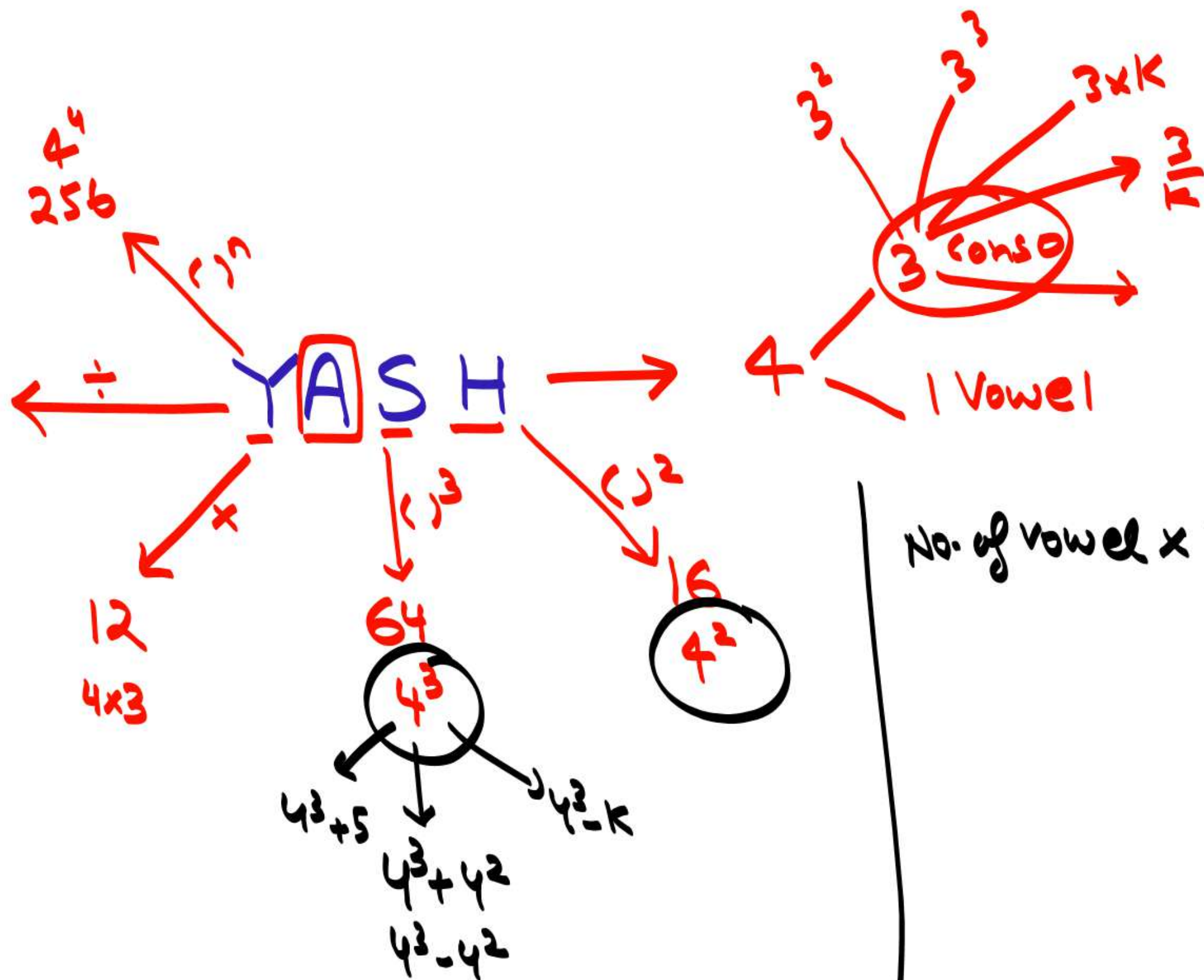
विविध
Miscellaneous

Vowel Sum ~ Conso Sum
(15+9) ~ (6+12) = 6
Double digit sum ~ Single digit sum
(15+12) ~ (6+9) = 12
1/2 - 1/2
(6+15) ~ (12+9) = 0

No. of Letter



$$\left(\frac{4}{2}\right) \rightarrow 2$$



EXAMPLE

GOVIND

No. of letters (अक्षरों की संख्या) = 6

Logics:-

01 $(\text{No. of Letters})^2 + 2 = 36 + 2 = 38$

02 $(\text{No. of Letters})^2 - 2 = 36 - 2 = 34$

03 $(\text{No. of Letters})^2 \times 2 = 36 \times 2 = 72$

04 $(\text{No. of Letters})^2 \div 2 = 36 \div 2 = 18$

05 $(\text{No. of Letters})^2 = (6)^2 = 36$

No. of Letter

ii

No. of
Letter

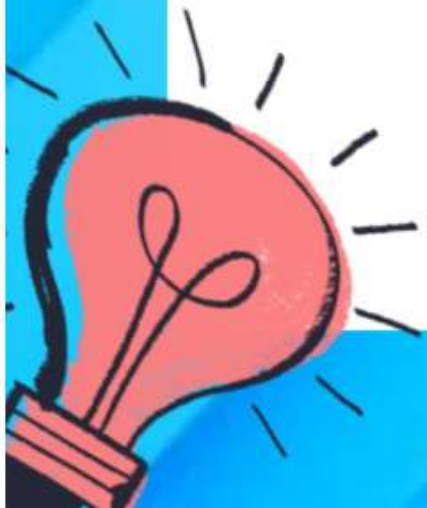
Cube (घन)

$+ k$

$- k$

$\times k$

$\div k$



EXAMPLE

REASON

Logics:-

No. of letters (अक्षरों की संख्या) = 6

01 $(\text{No. of Letters})^3 + 3 = \underline{(6)^3} + 3 = \underline{219}$

02 $(\text{No. of Letters})^3 - 3 = \underline{(6)^3} - 3 = 213$

03 $(\text{No. of Letters})^3 \times 3 = \underline{(6)^3} \times 3 = 648$

04 $(\text{No. of Letters})^3 \div 3 = \underline{(6)^3} \div 3 = 72$

05 $(\text{No. of Letters})^3 = \underline{(6)^3} = 216$

iii

No. of Letters + / - k
अक्षरों की संख्या + / - k

Example

LEGACY

No. of letters (अक्षरों की संख्या) = 6

Logics:-

01 No. of Letters + 1 = 6 + 1 = 7

02 No. of Letters - 1 = 6 - 1 = 5

iv

No. of Letters $\times / \div k$
अक्षरों की संख्या $\times / \div k$



Example

COMPANY

No. of letters (अक्षरों की संख्या) = 7

Logic

01 $\text{No. of Letters} \times 3 = 7 \times 3 = 21$

02 $\text{No. of Letters} \div 1 = 7 \div 1 = 7$

No. of Letters (अक्षरों की संख्या)

$\times / \div$
No. of vowels (स्वरों की संख्या)

$\times / \div$
No. of consonants (व्यंजनों की संख्या)

Example

⁹
SELECTION

No. of letters (अक्षरों की संख्या) = 9
No. of vowels (स्वरों की संख्या) = 4
No. of consonants (व्यंजनों की संख्या) = 5

Logics:-

01 (No. of Letters) $\times$ (No. of vowels) = $9 \times 4 = \underline{36}$

02 (No. of letters) $\times$ (No. of consonants) = $9 \times 5 = \underline{45}$

03 (No. of vowels) $\times$ (No. of consonants) = $4 \times 5 = \underline{20}$

Sum of Letter (अक्षरों का योग)

Sum of Letters + / - k
अक्षरों का योग + / - k

Example

⁷
SUCCESS

- (अक्षरों का योग) Sum of Letters
= $19+21+3+3+5+19+19=89$
- (अक्षरों की संख्या) No. of Letters = 7

Logics:-

01 sum of letters - 5 = 89 - 5 = 84

02 sum of letters + 5 = 89 + 5 = 94

03 sum of letters - No. of letters = 89 - 7 = 82

04 sum of letters + No. of letters = 89 + 7 = 96



Sum of Letter (अक्षरों का योग)

Example

ii

Sum of Letters $\times / \div k$
अक्षरों का योग $\times / \div k$

20 1 19 11
TASK

• (अक्षरों का योग) Sum of Letters

$$= \underline{20} + \underline{1} + \underline{19} + \underline{11} = \underline{51}$$

• (अक्षरों की संख्या) No. of Letters = 4

Logics:-

01 sum of letters $\times 2 = \underline{51} \times 2 = \underline{102}$

02 sum of letters $\div 3 = \underline{51} \div 3 = \underline{17}$

03  sum of Letters $\times$ (No. of Letters) = $\underline{51} \times 4 = \underline{204}$

(Sum of Letters)²

★ **EXAMPLE** ★

A C D →

(अक्षरों का योग) Sum of Letters = 1 + 3 + 4 = 8

Logics:-

01 $(\text{Sum of Letters})^2 = (8)^2 = 64$

02 $(\text{Sum of Letters})^2 + 3 = (8)^2 + 3 = 67$

03 $(\text{Sum of Letters})^2 - 2 = 64 - 2 = 62$

04 $(\text{Sum of Letters})^2 \times 2 = 64 \times 2 = 128$

05 $(\text{Sum of Letters})^2 \div 4 = (8)^2 \div 4 = 16$

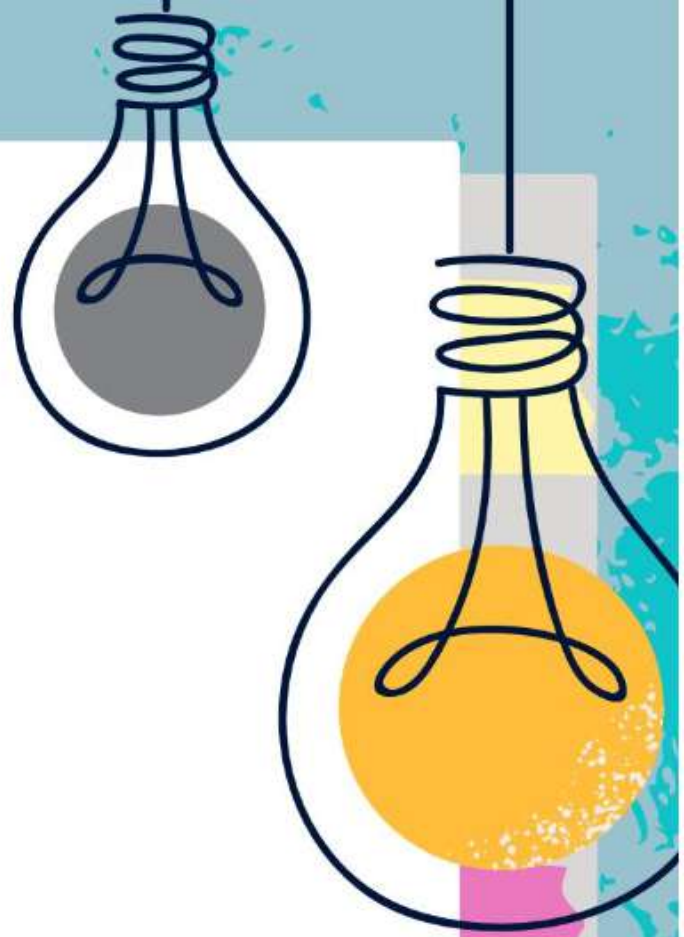


(Sum of Letters)³

★ **EXAMPLE** ★

D E F →

(अक्षरों का योग) Sum of Letters = 4 + 5 + 6 = 15



Logics:-

01 $(\text{Sum of Letters})^3 + 3 = \overset{3375}{(15)^3} + 3 = \underline{3378}$

02 $(\text{Sum of Letters})^3 - 3 = \underline{(15)^3} - 3 = \underline{3372}$

03 $(\text{Sum of Letters})^3 = \underline{(15)^3} = \underline{3375}$

गुणा Multiplication

EXAMPLE : (i)

$$\begin{array}{ccc} \text{C} & \text{A} & \text{T} \\ \downarrow & \downarrow & \downarrow \\ 3 & \times 1 & \times 20 = 60 \end{array}$$

EXAMPLE : (ii)

$$\begin{array}{cccc} 16 & 1 & 18 & 20 \\ \text{P} & \text{A} & \text{R} & \text{T} \\ \downarrow & \downarrow & \downarrow & \downarrow \\ 16 & \times 1 & \times 18 & \times 20 = 5760 \end{array}$$

विविध Miscellaneous

Diffⁿ (अंतर)

EXAMPLE :- 1

2 15 20 1 12

TOTAL → 5

24

30

(sum of consonants - sum of vowels)

$$= \underline{(2 + 20 + 12)} - \underline{(15 + 1)}$$

= 18

$$(15 + 20 + 12)_{\text{double}} - (2 + 1)_{\text{single}} = 44$$

विविध Miscellaneous

EXAMPLE :-2

SEMIFINAL

Number of consonants = 5 ✓
Number of vowels = 4 ✓

LOGIC

Number of consonants

Number of vowels

5 4

4 5

$4 \times 5 = 20$ ✓
 $5 - 4 = 1$

$4^2 + 5^2$
 $5^2 - 4^2$
 $5^3 - 4^3$

विविध Miscellaneous

EXAMPLE :-3

E N J O Y
↓ ↓ ↓ ↓ ↓
V M Q L B

$$22 + 13 + 17 + 12 + 2 = 66$$

विपरीत योग

Logic:- sum of position of opposite Letters

विविध Miscellaneous

EXAMPLE :-4

R A D I O

↓ ↓ ↓ ↓ ↓

$$18 + 1 + 4 + 9 + 15 = 47$$

योग

Digit Sum = 4 + 7 = 11

3✓

4 × 1 = 28

Logic:- Digit sum of sum of Letters

Practice Questions



In a certain code language, 'SWING' is written as '68' and 'SWITCH' is written as '86'. How will 'BOARD' be written in that language?

एक निश्चित कूट भाषा में, 'SWING' को '68' और 'SWITCH' को '86' लिखा जाता है। उस भाषा में 'BOARD' कैसे लिखा जाएगा?

(a) 106

(c) 69

(b) 100

(d) 95

(Delhi Police Head Constable AWO/TPO 2022, 27.10.2022 shift - 1)

5 अक्षर

$$27 \times 5 = 135$$

SWING → 68

19 23 9 14 7

योग → 19 + 23 + 9 + 14 + 7 = 72

Opp Sum = 135 - 72 = 63

27 × 5

BOARD → 40

27 × 5 - 40 = 135 - 40 = 95

Opp. Sum + No. of Let

95 + 5 = 100

27 × 6

SWITCH → 86

19 23 9 20 3 8 = 82

Opp Sum = 162 - 82 = 80

+6

$27 \times 8 = 216$
POSITIVE
 16 15 14 9 20 9 22 5
 Sum = 115
 Opp Sum = $216 - 115 = 101$

$101 + 8 = 109$

27×8
NEGATIVE
 14 5 7 1 20 9 22 5
 Sum = 83
 Opp. Sum $\rightarrow 216 - 83 = 133$

$133 + 8 = 141$

In a certain code language, 'POSITIVE' is written as '109' and 'NEGATIVE' is written as '141'. How will 'INTEGER' be written in that language?

एक निश्चित कूट भाषा में, 'POSITIVE' को '109' और 'NEGATIVE' को '141' लिखा जाता है। उस भाषा में 'INTEGER' कैसे लिखा जाएगा?

- (a) 107 (b) 111
 (c) 114 (d) 118

(Delhi Police Head Constable AWO/TPO 2022, 27.10.2022 shift - 2)

$$\frac{\text{Opp Sum} + \text{No. of Lett}}{111 + 7 = 118}$$

$$\begin{array}{ccccccc}
 & & 3 & & & & \\
 A & I & R & \rightarrow & 84 & & \\
 1 & 9 & 18 & \rightarrow & 28 & \times 3 & \\
 & & \text{योग} & & & & \\
 & & & & & & \\
 & & 5 & & & & \\
 C & H & A & I & R & = & 195 \\
 3 & 8 & 1 & 9 & 18 & & \\
 & & & & 39 & \times 5 &
 \end{array}$$

Sum x No. of Lett

In a certain code language, 'AIR' is written as '84', and 'CHAIR' is written as '195'. How will 'LAND' be written in that language?

एक निश्चित कूट भाषा में, 'AIR' को '84' लिखा जाता है, और 'CHAIR' को '195' लिखा जाता है। उस भाषा में 'LAND' कैसे लिखा जाएगा?

(a) 120

(b) 128

☒ (c) 124

(d) 132

(Delhi Police Head Constable AWO/TPO 2022,
28.10.2022 shift - 1)

In a certain code language, 'DUCK' is written as '16' and 'SHEEP' is written as '25'. How will 'TURKEY' be written in that language?

(No. of Lett)²

एक निश्चित कूट भाषा में, 'DUCK' को '16' और 'SHEEP' को '25' लिखा जाता है। उस भाषा में 'TURKEY' को कैसे लिखा जाएगा?

- (a) 36 (b) 42
(c) 49 (d) 30

6-6²=36

(Delhi Police Head Constable AWO/TPO 2022,
28.10.2022 shift - 2)

In a certain code language, 'PAINT' is coded as '70', and 'POLISH' is coded as '89'. How will 'CLEAN' be coded in that language?

Sum + 10

एक निश्चित कोड भाषा में, 'PAINT' को '70' के रूप में कोडित किया जाता है, और 'POLISH' को '89' के रूप में कोडित किया जाता है। उस भाषा में 'CLEAN' को कैसे कूटबद्ध किया जाएगा?

☒ (a) 45

(b) 35

(c) 40

(d) 95

$$35 + 10 = 45$$

RRB NTPC 2019 CBT-2,
(LEVEL-2) (16-06-2022, Shift-2)

In a certain code language, 'CELL' is written as '32', 'PHONE' is written as '58'. How will 'BOLD' be written in that language?

एक निश्चित कूट भाषा में, 'CELL' को '32', 'PHONE' को '58' लिखा जाता है। उस भाषा में 'BOLD' कैसे लिखा जाएगा?

(a) 33

(b) 32

(c) 43

(d) 54

(NTPC, CBT-2, Level - 3, 17.06.2022 Shift-1)

$$2 + 15 + 12 + 4 = 33$$

In a certain code language, 'YOU' is coded as '20' and 'LIP' is coded as '44'. What is the code for 'ROB' in the given code language?

opp sum

एक निश्चित कोड भाषा में, 'YOU' को '20' के रूप में कोडित किया जाता है और 'LIP' को '44' के रूप में कोडित किया जाता है। दी गई कूट भाषा में 'ROB' के लिए कूट क्या है?

☒ (a) 46

(b) 41

(c) 44

(d) 42

SSC MTS 2023, 08/09/2023 (Shift-1)