

CGL Mains 2025

Reasoning



Reasoning

3-4 ① Letter Based Reasoning

2-3 ② Number Based Reasoning

③ Alphanumeric Reasoning

④ Social Intelligence (1-2)

10-15/**** ⑤ Problem solving (✓) →

⑥ Logical & Analytical reasoning

⑦ Sitting Arrangement & Puzzle

⑧ Non Verbal Reasoning (1-2 4)

8 Sections

45-50%
5/6



✓ 45-50 classes

✓ Topicwise practice
Session

✓ 10^+ → Mocks ✓

Letter Based Reasoning

Letter

↕ Conceptual

Basics



Order Of The English Alphabet

Forward order position	Letters	Backward order position
1 ←	A	26
2	B	25
3	C	24
4	D	23
5	E	22
6	F	21
7	G	20
8	H	19
9	I	18
10	J	17
11	K	16
12	L	15
13	M	14

Forward order position	Letters	Backward order position
14	N	13
15	O	12
16	P	11
17	Q	10
18	R	9
19	S	8
20	T	7
21	U	6
22	V	5
23	W	4
24	X	3
25	Y	2
26 ←	Z	1



Clockwise Movement

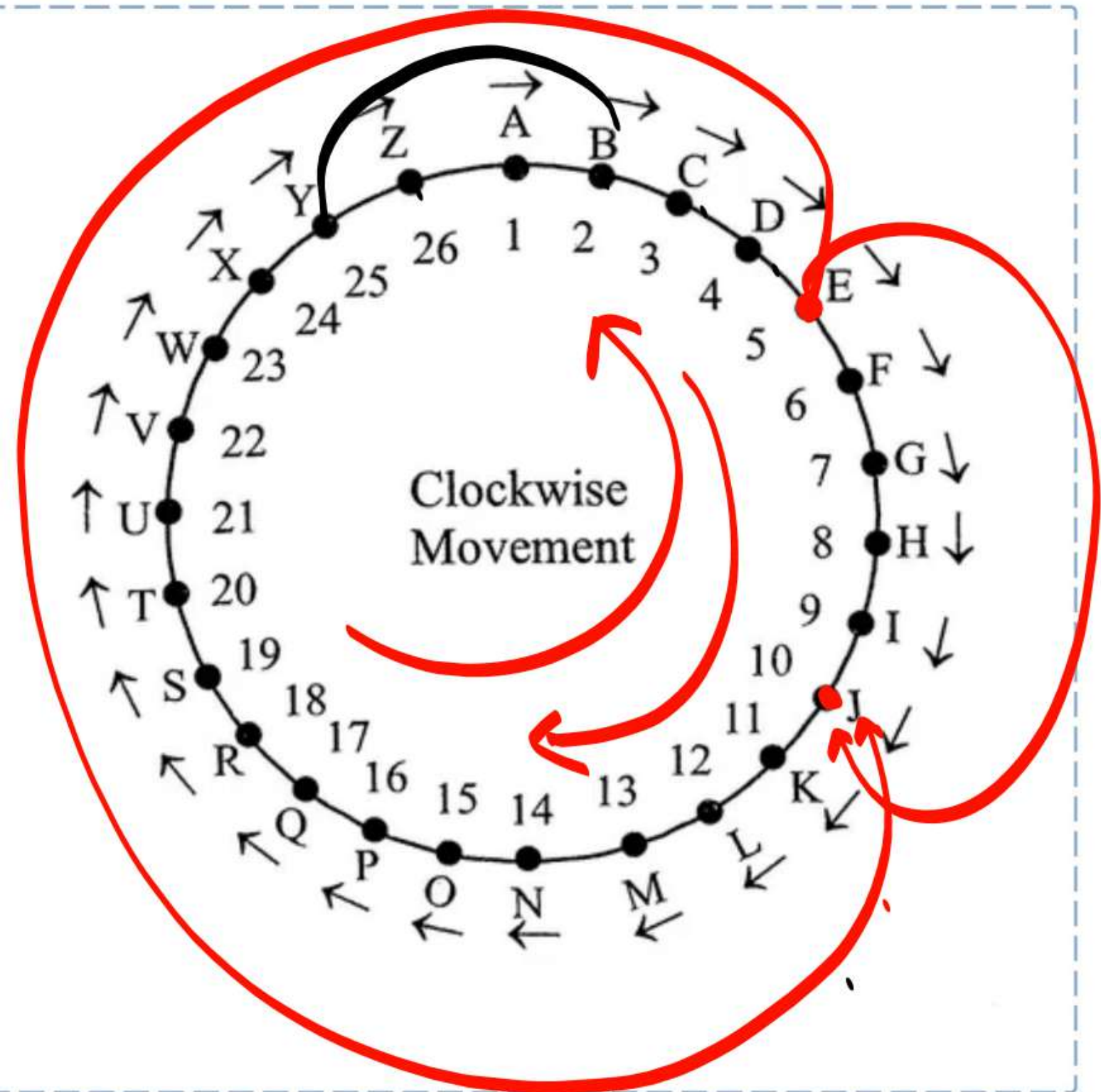
concept $\rightarrow$ ✓

26

+5

-21

510



+5

$$\begin{array}{ccc} \text{X} & \xrightarrow{\quad 26 \quad} & \text{B} \\ 24 & \begin{array}{c} +4 \\ -22 \end{array} & 2 \end{array}$$

$$\begin{array}{ccc} \text{S} & \xrightarrow{\quad 26 \quad} & \text{Y} \\ 19 & \begin{array}{c} +6 \\ -20 \end{array} & 25 \end{array}$$

$$\begin{array}{ccc} \text{F} & \xrightarrow{\quad 26 \quad} & \text{S} \\ 6 & \begin{array}{c} +13 \\ -13 \end{array} & 19 \end{array}$$

$$\begin{array}{ccc} \text{B} & \xrightarrow{\quad 26 \quad} & \text{F} \\ 2 & \begin{array}{c} +4 \\ -22 \end{array} & 6 \end{array}$$



Concept

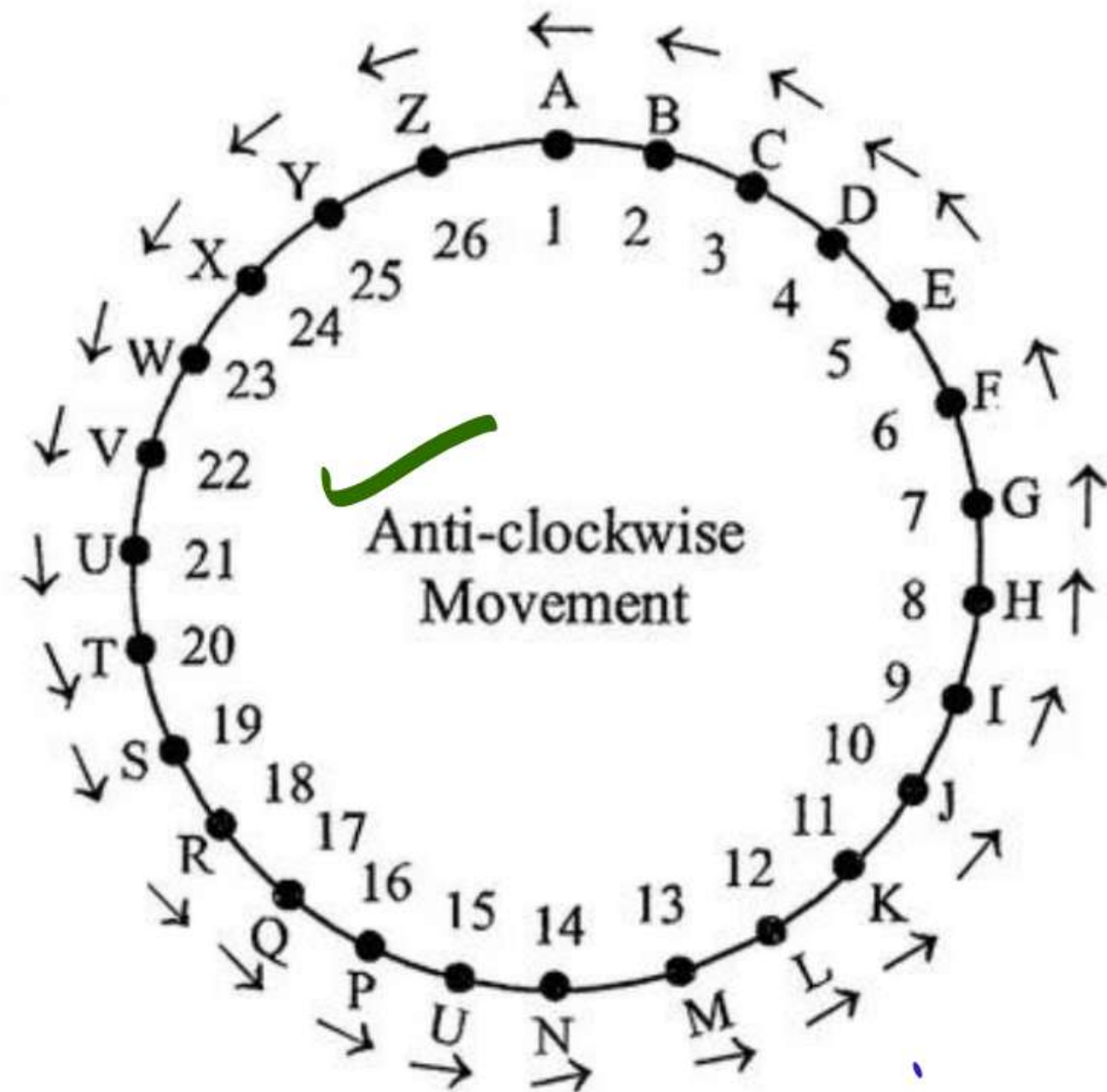
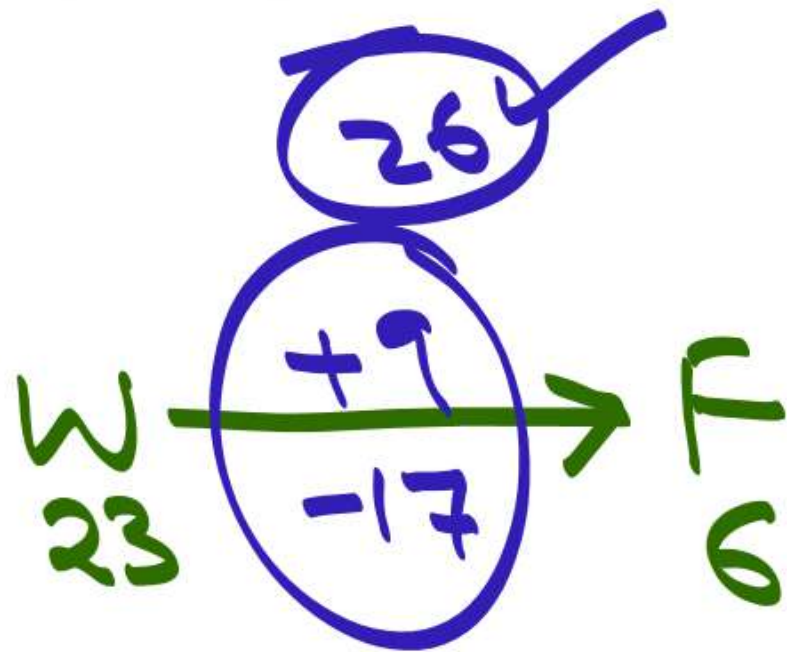
दो अक्षरों के बीच अंतर

Forward Diff. + Backward Diff.

= 26



Anti-Clockwise Movement



✓ Opposite Letter

(i) A Z (Aaza)
↓ ↓
1 + 26 = 27

(ii) B Y (By)
↓ ↓
2 + 25 = 27

(ii) C X (Six)
↓ ↓
3 + 24 = 27

(iv) D W (Dew)
↓ ↓
4 + 23 = 27

(v) E V (Evening)
↓ ↓
5 + 22 = 27

(vi) F U (Uff)
↓ ↓
6 + 21 = 27

(vii) G T (GT Road)
↓ ↓
7 + 20 = 27

(viii) H S (High School)
↓ ↓
8 + 19 = 27

(ix) I R (Indian Railways)
↓ ↓
9 + 18 = 27

(x) J Q (Jack Queen)
↓ ↓
10 + 17 = 27

(xi) K P (Kevin Peterson)
↓ ↓
11 + 16 = 27

(xii) L O (Love)
↓ ↓
12 + 15 = 27

(xiii) M N (Man)
↓ ↓
13 + 14 = 27

13 Pair

LOVE

NOTE

Backward order position of a letter

= 27 - Forward order position of letter

e.g. Backward order position of B

= 27 - Forward order position of B

= 27 - 2 = 25

By Using V O L G B and X U R O L I F C

can easily remember the position of letters of English alphabet is reverse order./ अंग्रेजी वर्णमाला के अक्षरों की स्थिति को उल्टे क्रम में आसानी से याद रख सकते हैं।



10
J
→ $27 - 10 + 1 = 18^{\text{th}}$
✓ $27 - 10 = 17^{\text{th}}$



31 हसरो
Letters (26)

Letter cluster ✓

Group of Letter ✓

AMX

OYU

WORD (शब्द)

MAX

YOU

Unscrambling

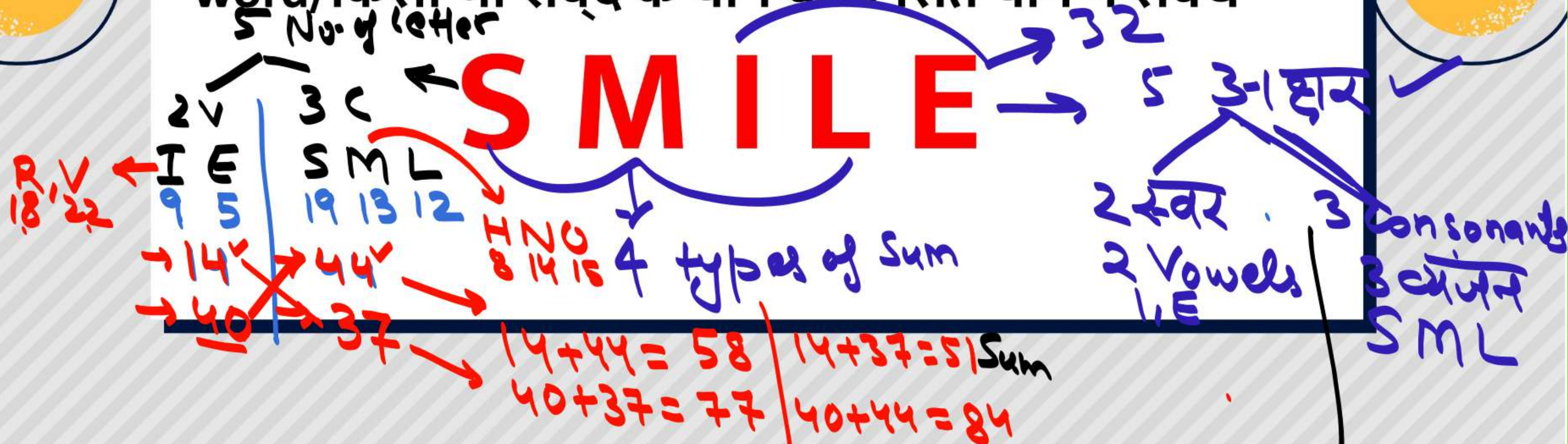
Vocab

Eng dictionary

meaning
सार्थक

Sum of letter IN WORDS

Relation between the sum and opposite sum of any word/किसी भी शब्द के योग व वपिरीत योग में संबंध



CONCEPT

Sum + Reverse Sum = $27 \times$ Number of letters
योग + वपिरीत योग = $27 \times$ अक्षरों की संख्या

FRUIT

6 18 21 9 20

योग = 74

वि.योग = $27 \times 5 - 74$
 $135 - 74 =$

61

LETTER CLASSIFICATION

26 अक्षर

Next Consonant

Next Vowel

BCDEFGH IJKLMN PQRSTVWXYZ

21 व्यंजन
(Consonant)

MRXYZ

05 स्वर
(Vowels)

A E I O U

Vowel
Counting

1 2 3 4 5
5 4 3 2 1

प
ह
न



LETTER CLASSIFICATION



26 અક્ષર

13 EVEN

B D F H J..

13 ODD

A C E G I...



LETTER CLASSIFICATION



26 અક્ષર

8 PRIME

(POSITIONS)

²B ³C ⁵E ⁷G ¹¹K

¹³M ¹⁷Q ¹⁹S ²³W

18 NON PRIMES

¹A ⁴D ⁶F ⁸H ⁹I ¹⁰J
L N O

P R T U V X Y Z



LETTER CLASSIFICATION



26 અક્ષર

Perfect
Square

A D I P Y ✓

1 4 9 16 25

Perfect
Cubes

A H

1 8

LETTER CLASSIFICATION

26 अक्षर

SINGLE

DIGIT

A B C D E F

G H I

9

DOUBLE

DIGIT

J K L M N O P Q R S

T U V W X Y Z

26

Letter Based Reasoning

Letter Basics ✓

1. Coding decoding ✓

practice

2. Alphabet Test

3. Letter Analogy

4. Letter Classification

5. Missing Letters

6. Letter series & Sequence



Coding Decoding

1. Letter to Letter ✓
2. Letter to Number ✓
3. Chinese coding ✓
4. Substitutional coding ✓
5. Letter to LSN/Fixed coding ✓

bilingual

you tube → SSC ✓

NTPC CBT-2 ✓

Line Notes → ✓

Main 2022 ✓
2023 ✓
2024 ✓

Chal Cyl

IB ✓

Book ✓

