

2026
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CHAPTER

Arrangement and Pattern (Alphabet & Number Series)

Introduction of Alphabet

- This chapter includes questions based on the English alphabet (A – Z). Candidates should know the positions of all 26 letters and basic related concepts clearly.
- **Letters are of two types:**
 - ✓ **Vowels** – A, E, I, O, U (There are 5 vowels in the English alphabet.)

- ✓ **Consonants** – B, C, D, F, G, H, J, K, L, M, N, P, Q, R, S, T, V, W, X, Y, Z (There are 21 consonants in the English alphabet.)
- **The alphabet is divided into two halves:**
 - ✓ **First Half** – A to M (The first half contains 13 letters, i.e., positions 1 to 13.)
 - ✓ **Second Half** – N to Z (The second half contains 13 letters, i.e., positions 14 to 26.)

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26

Short trick:

- **EJOTY** (इजोटी)

5	10	15	20	25
E	J	O	T	Y

- **CFILORUX** (सिफिलोरक्स)

3	6	9	12	15	18	21	24
C	F	I	L	O	R	U	X

- **Finding letters from the right side can be simplified using the formula:**

- ✓ Position from left = 27 – Position from right

- **Trick to Remember Opposite Letters**

Pair	AZ	BY	CX	DW	EV	FU	GT
Trick	AZ	BYe	Cracks	DeW	EVening	Few / Uff	G.T. Road

Pair	HS	IR	JQ	KP	LO	MN
Trick	High School	Indian Railway	Jaipur Queen	KanPur	Life OK	MaN

Points to Remember

'A' Preceded by 'B'	→ BA
'A' Followed by 'B'	→ AB
'A' Precedes 'B'	→ AB
'A' Follows 'B'	→ BA
Vowel	→ A, E, I, O, U
Consonant	→ B, C, D, F, G, H, J, K, L, M, N, P, Q, R, S, T, V, W, X, Y, Z.
Prime Numbers	→ A number which is not divisible by any number except 1. Example: 2, 3, 5, 7, 11, 13, 17, 19, 23, etc.
Even Numbers	→ A number which is divisible by 2. Example: 0, 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, etc.
Odd Numbers	→ A number which is not divisible by 2. Example: 1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, etc.

Type 1: Dictionary or Alphabet Based

Ex: In the given word "AUTHORISE" replace the consonants with the succeeding letter as per the English alphabet series and vowel with their preceding letter as per the English alphabet series. Then arrange the letters in reverse alphabetical order from right to left. Which of the following letter is third from the left end after arrangement?

Sol:

- ✓ **According to Questions:**

- Vowel → Previous letter
- Consonant → Next letter
- "Reverse alphabetical from right to left" Same as A → Z from left

✓ **Apply this Rule:**

AUTHORISE

A U T H O R I S E

↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓

Z T U I N S H T D

✓ **New word:** Z T U I N S H T D

✓ **Arrange (A → Z from left)**

D H I N S T T U Z

✓ **Answer** → 3rd from left = I

Exam Tip

For phrase “reverse alphabetical order from right to left”, arrange Z to A starting from the right side. So, from the left side, it appears as A to Z.

Ex: Read the following information carefully and answer the given questions: If it is possible to make a meaningful four-letter English word from the third, fifth, sixth, and eighth from the left end of the word "DIABETES", then which of the following will be the second letter of that word from the right end? If more than one such word can be made then give 'Z' as the answer and if no such word can be formed then give 'X' as the answer.

Sol:

✓ **Trick:** Find positions → Pick letters → Make words

✓ **Rule:**

- **Only 1 word** → answer the asked letter
- **More than 1 word** → answer Z
- **No word** → answer X

✓ **Word:** DIABETES

D	I	A	B	E	T	E	S
1	2	3	4	5	6	7	8
		↑		↑	↑		↑
		A		E	T		S

✓ **Possible meaningful words:** EATS, SEAT, EAST, TEAS, SATE

✓ More than one word can be formed.

Exam Tips

Do not stop after finding one word. Check whether **more than one meaningful word** can be made.

Ex: In the following question, five different words are given in the options. Along with each word, positions of four letters in that word are given and the positions of the letters are counted from the left end of the word. Four lettered meaningful word can be formed from the letters corresponding to the positions given in each option without jumbling the letters. Which of the following options will give a meaningful English word?

- (A) Claustrophobia - 2, 7, 12, 14
- (B) Photosynthesis - 2, 7, 8, 12
- (C) Incomprehensive - 3, 4, 10, 12
- (D) Notwithstanding - 4, 5, 11, 12
- (E) Parallelogram - 6, 7, 12, 13

Sol:

- ✓ **Trick:** Count positions → Pick letters → Do not jumble → Check word
- ✓ Meaningful word must be formed **in the same order.**

PICTORIAL SOLUTION
Pick the letters at given positions (from left end) without jumbling and form a 4-letter meaningful word.

(A) Claustrophobia 2, 7, 12, 14	C L A U S T R O P H O B I A 1 2 3 4 5 6 7 8 9 10 11 12 13 14 ↓ ↓ ↓ ↓ L R B A L R B A ✗
(B) Photosynthesis 2, 7, 8, 12	P H O T O S Y N T H E S I S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 ↓ ↓ ↓ ↓ H Y N S H Y N S ✗
(C) Incomprehensive 3, 4, 10, 12	I N C O M P R E H E N S I V E 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 ↓ ↓ ↓ ↓ C O E S C O E S ✗
(D) Notwithstanding 4, 5, 11, 12	N O T W I T H S T A N D I N G 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 ↓ ↓ ↓ ↓ W I N D W I N D ✓
(E) Parallelogram 6, 7, 12, 13	P A R A L L E L O G R A M 1 2 3 4 5 6 7 8 9 10 11 12 13 ↓ ↓ ↓ ↓ L E A M L E A M ✗

ONLY OPTION (D) FORMS A MEANINGFUL WORD.
ANSWER: (D) NOTWITHSTANDING → WIND

Ex: There are four words given in each option that follows a certain logic, if the second letter from the left of each word is taken then a meaningful word can be formed, find the odd one which does not follow the same pattern.

Sol:

Trick:

1. Arrange letters in A → Z
2. Identify positions carefully
3. Convert both letters to alphabetical positions
4. Count letters BETWEEN (not including ends)

Given Word - FRONTIER

If all the letters of the word "FRONTIER" are arranged in alphabetical order starting from the left end, then we get → EFINORRT

N is **fifth from the right** end and I is **fourth to the left of the seventh letter** from the left end that is R.

There are **four letters between I and N** in alphabetical order. (J, K, L and M)

Hence, the correct answer is Four.

Ex: If it is possible to make only one seven letter meaningful English word with the 1st, 4th, 5th, and 7th letter of the word PRIORITY and 3rd, 5th, and 6th letter of the word SECTOR, which of the following will be the first letter from left of that word? If no such word can be made give 'X' as the answer and if more than one such word can be made give 'Y' as the answer.

Sol:

1. GIVEN WORDS

PRIORITY	1	2	3	4	5	6	7	8
	P	R	I	O	R	I	T	Y
SECTOR	1	2	3	4	5	6		
	S	E	C	T	O	R		

2. PICK THE REQUIRED LETTERS

From PRIORITY (1st, 4th, 5th, 7th)	From SECTOR (3rd, 5th, 6th)
1 4 5 7 ↓ ↓ ↓ ↓ P O R T	3 5 6 ↓ ↓ ↓ C O R

3. COMBINE ALL SELECTED LETTERS

P O R T C O R

4. FORM POSSIBLE 7-LETTER WORD(S)

PORTCOR
(Only one meaningful English word can be formed.)

5. CHECK THE NUMBER OF WORDS

Only one meaningful word can be formed.

6. APPLY THE RULE

Only one word → Answer is the first letter from left of that word.

7. FINAL ANSWER

P

Type 3: General Series of Alphabets

Ex:

Direction: Study the following series carefully and answer the question given below.

M F J O L Q W E R T Y U P A H D G I N X Z C V B S K

How many vowels are there in the given series which is immediately followed by a letter which comes after 'M' in alphabetical series?

Sol:

Given series: M F J O L Q W E R T Y U P A H D G I N X Z C V B S K

Vowels which is immediately followed by a letter which comes after 'M' in alphabetical series

M F J O L Q W E R T Y U P A H D G I N X Z C V B S K

Hence there are 'three' vowels which are immediately followed by a letter which comes after 'M' in alphabetical series.

Ex:

Direction: Read the following information carefully and answer the given questions below;

G M Z P Q R S U T A B I J K O N S P C E D F A H L G I M S V P O

How many elements are there between the 15th element from the left end and 23rd element from the right end?

Sol:

Series: G M Z P Q R S U T A B I J K O N S P C E D F A H L G I M S V P O

15th element from the left end is O and 23rd element from the right end is A.

G M Z P Q R S U T A B I J K O N S P C E D F A H L G I M S V P O

There are only 4 elements between the 15th element from the left end and 23rd element from the right end.

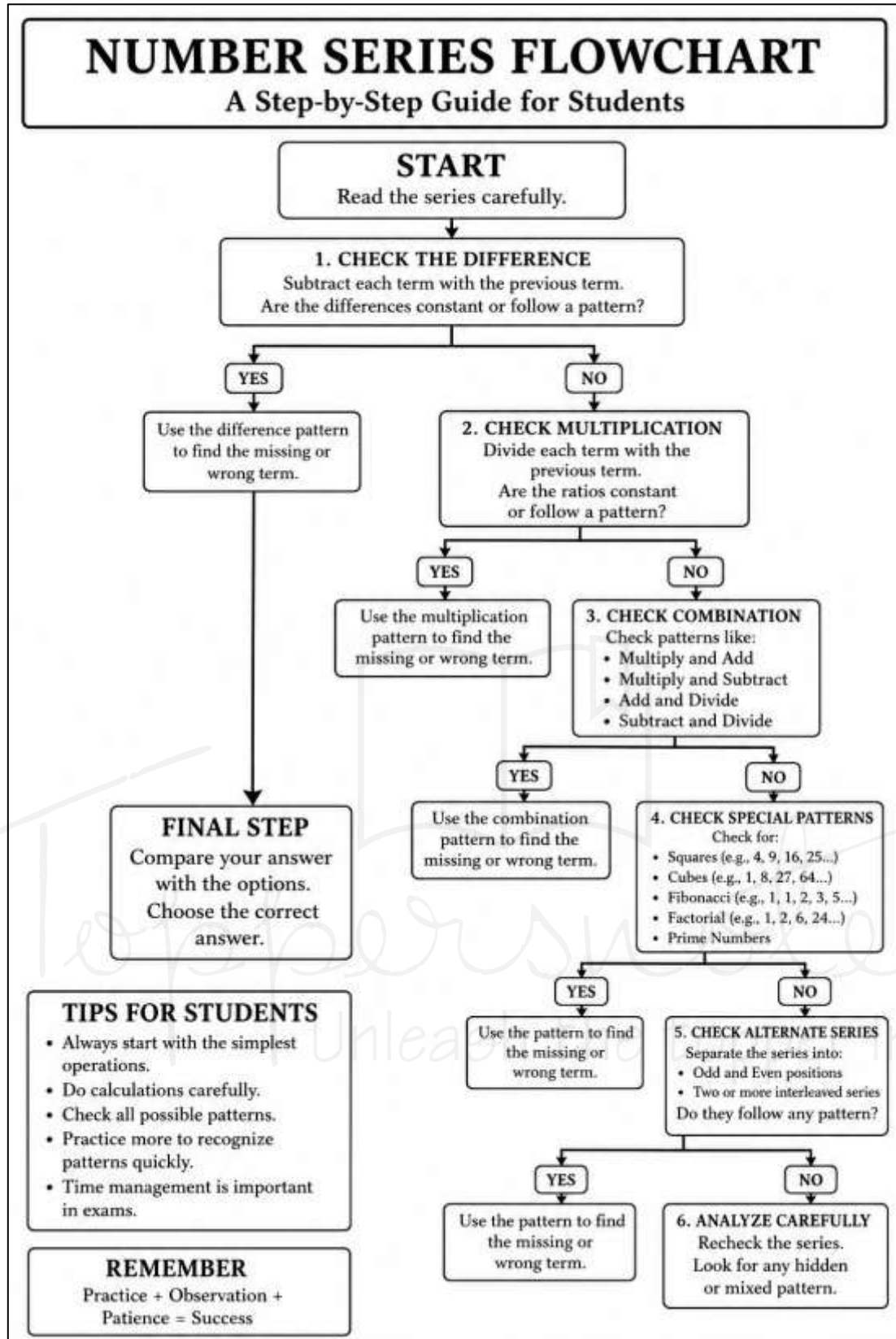
Hence, the answer is Four.

Introduction of Number Series

A series is a systematic arrangement of numbers or letters within a defined group. In competitive exams, sequences of numbers, letters, or a mix of both are presented. One position in the sequence is either left blank or contains an incorrect number or letter. Candidates are tasked with completing the series by selecting the correct option to fill the blank or identify the incorrect element.

NUMBER SERIES FLOWCHART

A Step-by-Step Guide for Students



Here's a clearer and concise way to solve number series problems:

➤ **Look for Patterns:** Check if the numbers are increasing or decreasing by a constant (addition/subtraction) or multiplied/divided by a constant (multiplication/division).

➤ **Find Differences:**

- ✓ If the difference between consecutive numbers is the same, it's an arithmetic series (e.g., 2, 5, 8, 11).
- ✓ If the second difference (difference of differences) is constant, it's a quadratic series.

- **Check for Multiplication/Division:** Look if each number is multiplied or divided by a constant to get the next number (e.g., 3, 6, 12, 24 where each number is doubled).
- **Recognize Special Sequences:**
 - ✓ **Squares:** 1, 4, 9, 16, ...
 - ✓ **Cubes:** 1, 8, 27, ...
 - ✓ **Fibonacci:** Each number is the sum of the two preceding ones (e.g., 0, 1, 1, 2, 3, 5).
- **Check for Ratios:** If the numbers increase by a constant ratio, it's a geometric progression (e.g., 2, 4, 8, 16).
- **Test the Options:** If options are provided, check which one follows the identified pattern.

Type 1: Number Arrangement

Ex:

Direction: The following questions are based on the five three-digit numbers given below.

483 396 625 834 967

If 2 is added to the last digit of each number and then the positions of the first and the second digits are interchanged, which of the following will be the highest number?

Sol:

Given series: 483 396 625 834 967

Adding 2 to the last digit: 485 398 627 836 969

Interchanging first and the second digit: 845 938 267 386 699

So, 938 is the highest number which came from 396.

Ex:

Direction: The following questions are based on the five three-digit numbers given below;

824 625 769 983 726

How many numbers are greater than that the average of all the five numbers?

Sol:

Trick: Find Average → Compare each number → Count greater numbers

$(824 + 625 + 769 + 983 + 726) \div 5 \rightarrow 785.4$

$824 > 785.4 \rightarrow$ **Smaller Than**

$625 < 785.4 \rightarrow$ Greater Than

$769 < 785.4 \rightarrow$ Greater Than

$983 > 785.4 \rightarrow$ **Smaller Than**

$726 < 785.4 \rightarrow$ Greater Than

Greater numbers: 824, 983

Answer: (C) 2

Ex:

Directions: Read the given information carefully and answer the following questions. If 2 is added to each of the odd digits, 3 is subtracted from each of the even digits and we eliminate the second and third terms from the right side in the number '7516438', then the sum of prime numbers is.

Sol:

Given number: 7516438

According to the question,

Number given	7	5	1	6	4	8
Odd digit → (+2)	(+2)	(+2)	(+2)	(-3)	(-3)	(-3)
Even digit → (-3)						
Resultant number	9	7	3	3	1	5

So, the difference between the greatest and smallest digits in the new number thus formed → $9 - 1 = 8$

Hence, "Option 1" is the correct answer.

Type-2: Series in Increasing Order

Ex: In the following question, select the missing number from the given series.



169, 196, 225, 256, _?

1. 289
2. 324
3. 441
4. 361

Ans:

169 196 225 256 289

$\boxed{+27} \uparrow \boxed{+29} \uparrow \boxed{+31} \uparrow \boxed{+33} \uparrow$

Ex: Which of the following numbers will replace the question mark (?) in the given series?

235, 271, ?, 349, 391, 435

1. 311
2. 307
3. 313
4. 309

Ans:

235 271 309 349 391 435

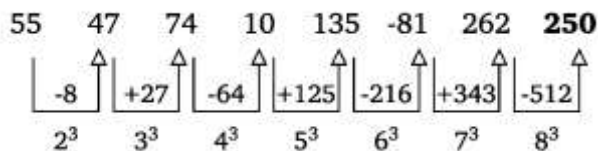
$\boxed{+36} \uparrow \boxed{+38} \uparrow \boxed{+40} \uparrow \boxed{+42} \uparrow \boxed{+44} \uparrow$
 $\boxed{+2} \uparrow \boxed{+2} \uparrow \boxed{+2} \uparrow \boxed{+2} \uparrow$

Ex: What number should replace question Mark (?) in the series given below.

55, 47, 74, 10, 135, -81, 262, ?

1. 774 2. -250
3. 343 4. -343

Ans:

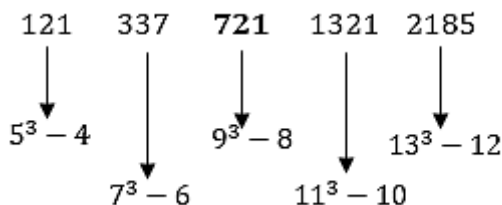


Ex: Find the missing number in the following series:

121, 337, ?, 1321, 2185

1. 713 2. 720
3. 721 4. 737

Ans:



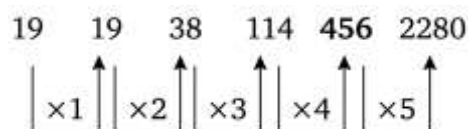
Type-3: Multiplication Based Increasing Series

Ex: Select the number from among the given options that can replace the question mark (?) in the following series.

19, 19, 38, 114, ?, 2280

1. 344 2. 1140
3. 456 4. 224

Ans:

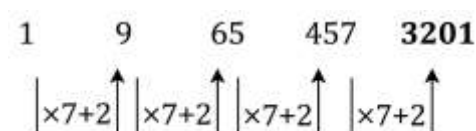


Ex: Which of the following numbers will replace the question mark (?) in the given series?

1, 9, 65, 457, ?

1. 4258 2. 3125
3. 3201 4. 5289

Ans:

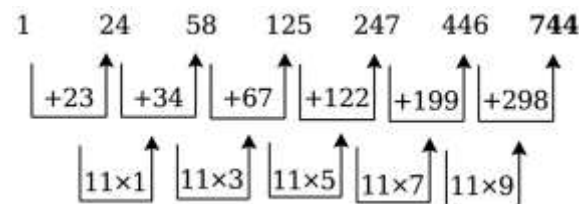


Ex: Which of the following numbers will replace the question mark (?) in the given series?

1, 24, 58, 125, 247, 446, ?

1. 774 2. 747
3. 744 4. 777

Ans:

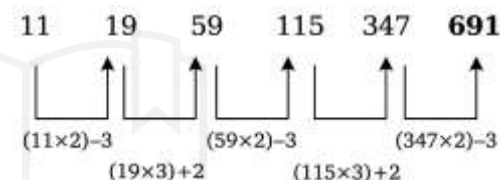


Ex: Select the number from among the given options that can replace the question mark (?) in the following series.

11, 19, 59, 115, 347, ?

1. 697 2. 619
3. 679 4. 691

Ans:



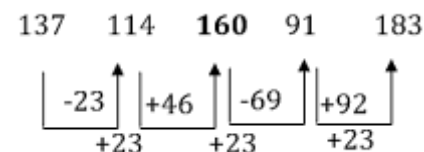
Type- 4: Addition and Subtraction Series

Ex: Which of the following number will replace the question mark (?) in the given series?

137, 114, ?, 91, 183

1. 145 2. 160
3. 125 4. 112

Ans:

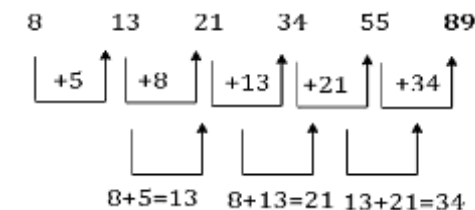


Ex: Which of the following numbers will replace the question mark (?) in the given series?

8, 13, 21, 34, 55, ?

1. 74 2. 68 3. 72 4. 89

Ans:



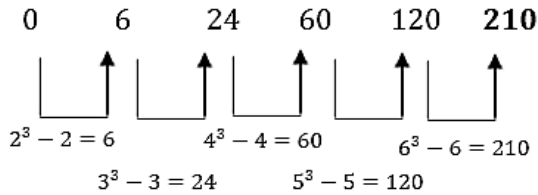
Type- 5: Square and Cube Based Series

Ex: Find the next term of the series:

0, 6, 24, 60, 120, ?

1. 180 2. 210
3. 216 4. 240

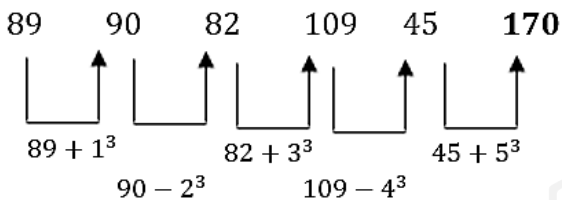
Ans:



Ex: Which number will replace the question mark (?) in the following series?

89, 90, 82, 109, 45, ?

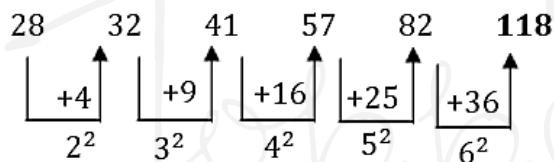
Ans:



Ex: Which number will replace the question mark (?) in the following series?

28, 32, 41, 57, 82, ?

Ans:

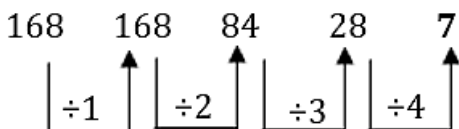


Type- 6: Division Based Decreasing Series

Ex: Which number will replace the question mark (?) in the following number series?

168, 168, 84, 28, ?

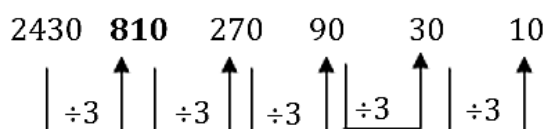
Ans:



Ex: Which number will replace the question mark (?) in the following series?

2430, ?, 270, 90, 30, 10

Ans:



Type- 7: Mixed Number Series

Ex: Find the next terms 11,13,17,19, 23, _?

1. 27 2. 29
3. 31 4. 33

Ans:

11 → Prime number

13 → Prime number

17 → Prime number

19 → Prime number

23 → Prime number

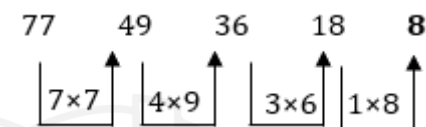
Next prime number = 29

Ex: What will come in place of the question mark (?) in the following series?

77, 49, 36, 18, ?

1. 10 2. 12
3. 8 4. 16

Ans:

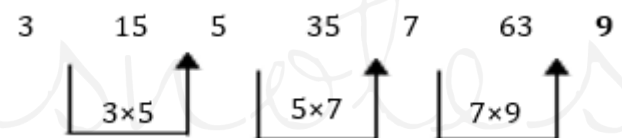


Ex: What will come in place of the question mark (?) in the following series?

3, 15, 5, 35, 7, 63, ?

1. 10 2. 126
3. 9 4. 84

Ans:

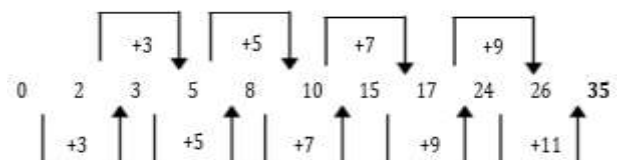


Ex: In the following series, what comes in place of the question mark (?)?

0, 2, 3, 5, 8, 10, 15, 17, 24, 26, ?

1. 28 2. 30
3. 32 4. 35

Ans:

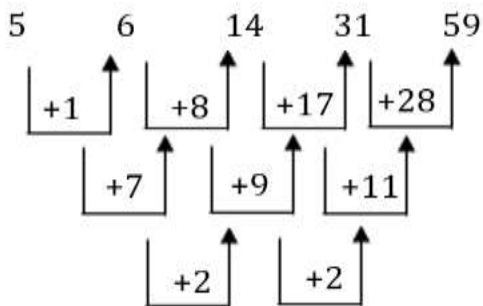


Ex: Select the number from among the given options that can replace the question mark (?) in the following series.

62, 74, 80, 86, 95, ?, 158

1. 113 2. 100
3. 108 4. 122

Ans: The correct answer is 113



In the place of 6, it is written 7, so the answer is 7.

Ex: Find the Wrong number in the given number series:

6, 7, 10, 13, 21, 37

1. 10
2. 37
3. 6
4. 13
5. 21

Ans:

The given number series follows the pattern:

$$6 + 2^0 = 7 \qquad 7 + 2^1 = 9$$

$$9 + 2^2 = 13 \qquad 13 + 2^3 = 21$$

$$21 + 2^4 = 37$$

Wrong Number in the given number series is 10.

Mixed Series

Ex: A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.

FK27, LQ64, RW125, ?

1. CX216
2. XB216
3. XC216
4. YB343

Ans:

Letters follow +6 steps in the alphabet

F → L → R → X and K → Q → W → C (after Z it starts from A)

Numbers are cubes of consecutive numbers

$$27 = 3^3, 64 = 4^3, 125 = 5^3, 216 = 6^3$$

Final answer XC216

Ex: Find the missing term. C4X, F9U, 116R,

1. L25P
2. L250
3. L270
4. L27P

Ans:

First part (letters):

C → F → I → L (each +3)

Second part (numbers):

4 → 9 → 16 → 25 (perfect squares $2^2, 3^2, 4^2, 5^2$)

Third part (letters):

X → U → R → O (each -3)

So, the missing term is L25O

Ex: What will be the next term in the following category?

G7Z26, H8X24, I9V22, _____?

1. J10T20
2. W23J10
3. J10W23
4. W23T20

Ans:

First letter: G → H → I → J (+1 each step)

Number: 7 → 8 → 9 → 10 (+1 each step)

Second letter: Z → X → V → T (-2 each step)

Last number: 26 → 24 → 22 → 20 (-2 each step)

Final answer: J10T20



GENERAL SERIES OF ALPHABET

Direction (1-4): Read the following information carefully and answer the given questions below;



G M Z P Q R S U T A B I J K O N S P C E D F
A H L G I M S V P O

- Q.1** How many elements are there between the 15th element from the left end and 23rd element from the right end? **[IBPS Clerk 2020]**
(A) Three (B) Four
(C) Eight (D) Six
(E) Two
- Q.2** How many elements are there which are immediately followed by vowel and immediately preceded by consonant? **[IBPS Clerk 2020]**
(A) Four (B) Two
(C) Seven (D) Eight
(E) Six
- Q.3** How many vowels are there between the 9th element from the right end and 5th element from the left end? **[IBPS Clerk 2020]**
(A) Six (B) Nine
(C) Eleven (D) Fourteen
(E) None
- Q.4** Which of the following element is 7th from the left of the 21st from the left end? **[IBPS Clerk 2020]**
(A) M (B) O
(C) I (D) K
(E) J

Direction (5-9): On the basis of the alphabets given below, answer the following questions:

T R G S O I W P A Q D V E U X Z B Y C H F

- Q.5** How many such consonants are there in the above series, each of which is immediately preceded by a vowel and followed by a consonant? **[SBI Clerk 2025]**
(A) Three (B) Two
(C) One (D) Five
(E) Six
- Q.6** How many such vowels are there in the above series, each of which is immediately preceded by a vowel and followed by a consonant? **[SBI Clerk 2025]**
(A) Three (B) One
(C) Two (D) Five
(E) Six
- Q.7** If all the vowels are dropped from the above arrangement, which letter will be the fourth letter to the left of the ninth letter from the left end? **[SBI Clerk 2025]**
(A) P (B) W
(C) A (D) I
(E) S

- Q.8** In the above alphabets, if each letter starting from S, is represented by the day of the week starting from Sunday, then what is the position of first occurring Sunday from the right? **[SBI Clerk 2025]**
(A) Sixth (B) Seventh
(C) Third (D) Eighth
(E) Fourth
- Q.9** In the following letter clusters, which will replace the question mark (?) PQD, SAY, EB Y, WEY, ? **[SBI Clerk 2025]**
(A) RFD (B) AYX
(C) OQW (D) RZP
(E) QUX
- Q.10** If all the vowels in the word 'RHAPSODY' are shifted by two forward places according to the English alphabet series and all the consonants are shifted by four backward places according to the English alphabet series, the alphabets thus obtained are then placed in alphabetical order, starting from the left to the right. What is the difference between the position in the alphabetical series of the second letter from the right end and the fourth letter from the left end of the newly formed arrangement? **[SBI Clerk 2024]**
(A) 10 (B) 12
(C) 11 (D) 7
(E) 9
- Q.11** If all the vowels of the word 'UMBRELLA' are changed to the letter which sits two positions behind in the English alphabetical series and all the consonants are changed to the letter which sits two positions ahead in the English alphabetical series, then the alphabets thus obtained are arranged in reverse order, starting from the left to the right, according to the English alphabetical series. Which of the following is the combination of letters that are second from the left end and second from the right end respectively of the newly formed rearranged sequence? **[IBPS PO 2024]**
(A) CS (B) NO
(C) YC (D) NN
(E) TD

RANDOM SEQUENCE OF ALPHABETS

Direction: Following questions are based on five words given below. TSR FKL FGO VQE HDB (The new words formed after performing the mentioned operations may or may not necessarily be meaningful English words)



ARRANGEMENT AND PATTERN

Q.12 How many letters are there in between the third letter of the fourth word from the left end and first letter of the third word from the right end as per the alphabetical series?

[IBPS Clerk 2023]

- (A) Five (B) Four
(C) One (D) Three
(E) None

Direction: Answer the the sequence of numbers given. 6 6 5 9 9 6 9 9 6 2 1 6 7 9 9 9 8 5 2 6 9 5 9 5 9 5 6 9 9

Q.13 How many numbers are prime that are there in the sequence (consider each digit as a different one)?

[SBI Clerk 2025]

- (A) 3 (B) 4
(C) 5 (D) 7
(E) 8

Direction: Study the following alphabet series and answer the questions that follow. R J S M O C E G N I H B K Y X U F W L P A V T Z D Q

Q.14 Four out of five are the same in a certain way and thus form a group. Which among the following does not belong to that group?

[SBI Apprentice 2021]

- (A) M - E (B) N - B
(C) F - P (D) I - E
(E) A - Z

Direction: Study the following series carefully and answer the question given below. M F J O L Q W E R T Y U P A H D G I N X Z C V B S K

Q.15 How many vowels are there in the given series which is immediately followed by a letter which comes after 'M' in alphabetical series?

[IBPS Clerk 2021]

- (A) None (B) One
(C) Two (D) Three
(E) More than four

Direction: Study the information given below carefully and answer the questions that follow. Given below are the five words of three letters each. UMF TRE QPO VIR GAT (The new words formed after performing the mentioned operations may or may not be meaningful English words)

Q.16 If letters of each word are arranged in descending order as per the English alphabetical series then how many words will end with a consonant?

[IBPS Clerk 2022]

- (A) One (B) Three
(C) Four (D) Two
(E) Five

Direction: Study the following letter series and give the answer to questions which are based on this letter series. A B C F E D G H I L K J M N O R Q P S T U X W V Y Z

Q.17 How many letters are not in their usual place in the alphabetic order?

[IBPS PO 2023]

- (A) 7 (B) 9
(C) 8 (D) 10
(E) None of these

Q.18 If all the letters of the word "FRONTIER" are arranged in alphabetical order starting from the left end, then how many letters are there in English alphabets between the letters which are fifth from the right end and fourth to the left of the seventh letter from the left end?

[SBI PO 2023]

- (A) Five (B) Four
(C) Two (D) Three
(E) More than Five

Q.19 If it is possible to make only one seven letter meaningful English word with the 1st, 4th, 5th, and 7th letter of the word PRIORITY and 3rd, 5th, and 6th letter of the word SECTOR, which of the following will be the first letter from left of that word? If no such word can be made give 'X' as the answer and if more than one such word can be made give 'Y' as the answer.

[SBI PO 2021]

- (A) P (B) R
(C) Y (D) O
(E) X

DICTIONARY OR ALPHABET BASED

Q.20 Direction: In the given word "AUTHORISE" replace the consonants with the succeeding letter as per the English alphabet series and vowel with their preceding letter as per the English alphabet series. Then arrange the letters in reverse alphabetical order from right to left. Which of the following letter is third from the left end after arrangement? [IBPS Clerk 2022]

- (A) D (B) H
(C) I (D) N
(E) S



ARRANGEMENT AND PATTERN

Q.21 Direction: Study the following information carefully and answer the question given below. If in the word "NEEDFUL" each consonant is replaced by the next alphabet and each vowel is replaced by the previous alphabet in the English alphabetical order then, which of the following will be the fifth letter from the left end?

[RRB Officer Scale - I 2024]

- (A) D (B) G
(C) T (D) O
(E) None of these

Q.22 Direction: Study the following information carefully and answer the question given below. If in the word "VENEZUELA" each consonant is replaced by the next alphabet and each vowel is replaced by the previous alphabet of the English alphabetical series then which of the following will be the Fourth letter from the left end? (Note: A is the next alphabet after Z and the previous alphabet before A is Z).

[RRB Officer Scale - I 2023]

- (A) O (B) A
(C) M (D) D
(E) T

Q.23 Direction: Read the following information carefully and answer the given questions. If it is possible to make a meaningful four-letter English word from the third, fifth, sixth, and eighth from the left end of the word "DIABETES", then which of the following will be the second letter of that word from the right end? If more than one such word can be made then give 'Z' as the answer and if no such word can be formed then give 'X' as the answer.

[SBI PO 2023]

- (A) S (B) A
(C) E (D) X
(E) Z

Q.24 Each vowel in the word "BACHELOR" is changed to the letter following it in the English alphabetical order and each consonant is changed to the letter preceding it in the English alphabetical order. If each letter, thus formed is arranged in alphabetical order, which letter will be fourth from the Left? [EPFO SSA 2023]

- (A) F (B) B
(C) G (D) K
(E) None of these

Q.25 In the given group of letter "ABSUDSX" if every letter which is at even position is replaced by previous letter and every letter which is at odd position is replaced by next letter according to English alphabet dictionary then how many three letter meaningful English words can be formed by 2nd, 6th and 7th letter after rearrangement. No letter will be repeated. If one word is formed then what will be 1st letter of that word. If two word can be formed answer will be Y and more than three words are formed, answer will be Z.

[IDBI Executive 2023]

- (A) X (B) Y
(C) Z (D) A
(E) None of these

Q.26 In the following question, five different words are given in the options. Along with each word, positions of four letters in that word are given and the positions of the letters are counted from the left end of the word. Four lettered meaningful word can be formed from the letters corresponding to the positions given in each option without jumbling the letters. Which of the following options will give a meaningful English word? [SBI Clerk 2024]

- (A) Claustrophobia - 2, 7, 12, 14
(B) Photosynthesis - 2, 7, 8, 12
(C) Incomprehensive - 3, 4, 10, 12
(D) Notwithstanding - 4, 5, 11, 12
(E) Parallelogram - 6, 7, 12, 13

Q.27 There are four words given in each option that follows a certain logic, if the second letter from the left of each word is taken then a meaningful word can be formed, find the odd one which does not follow the same pattern. [IBPS Clerk 2024]

- (A) DPKI, LINL, HAET, JRER
(B) KTDN, QPON, REOT, WSRU.
(C) NBRT, MDOK, CISU, QREP
(D) BRMI, YTOL, KUST, MHTR
(E) AXSE, NBVC, KHGR, RYTD

Q.28 What is the third letter of the three-letter word from the left end that can be formed using the first, sixth, and ninth letter of the word "Education" (from the left end) such that each letter should be used only once? If no such word can be formed mark your answer as 'X' and if more than one word can be formed mark your answer as 'Y'.

[RRB Officer Scale - I 2024]

- (A) N (B) X
(C) T (D) Y
(E) E

ARRANGEMENT AND PATTERN

- Q.29** If it is possible to make only one 4 letters meaningful word without repetition from the first, fourth, fifth, and the ninth letters of the word 'ABBREVIATE', which would be the second letter of the word? If more than one such word can be formed, give X as the answer. If no such word can be formed, give K as your answer. **[IBPS PO 2020]**
(A) A (B) B
(C) E (D) X
(E) K
- Q.30** If it is possible to make only one 4 letters meaningful word without repetition of the letter with the third, fifth, ninth and twelfth letters of the word 'COMPENSATION', which would be the third letter of the word from the left? If more than one such word can be formed, give X as the answer. If no such word can be formed, give K as your answer. **[SBI Clerk 2024]**
(A) M (B) E
(C) N (D) K
(E) X
- Q.31** If it is possible to make only one 4 letters meaningful word without repetition of the letter with the first, second, third and the eighth letters of the word 'MAGAZINE', which would be the third letter from the left of the word? If more than one such word can be formed, give X as the answer. If no such word can be formed, give K as your answer. **[SBI PO 2021]**
(A) M (B) A
(C) G (D) K
(E) X
- Q.32** If it is possible to make a meaningful word with the second, fifth, seventh and eleventh letters of the word "EVAPORATION" which of the following will be third letter from left end of newly formed word? If more than one such word can be made, give X as answer and if no such word can be made, give Y as the answer. **[IBPS PO 2022]**
(A) V (B) O
(C) X (D) Y
(E) N
- Q.33** If it is possible to make a meaningful word with the third, sixth, seventh and eighth letters of the word " REGENERATION" which of the following will be the second letter from the right end of that newly formed word? If more than one such word can be made, give M as the answer and if no such word can be made, give Y as the answer? **[SBI Clerk 2025]**
(A) M (B) E
(C) Y (D) A
(E) R
- Q.34** If it is possible to make only one meaningful 4 letter English word with the 1st, 3rd, 6th, and 8th letter of the word PROPELLER, which of the following will be the third letter from the left of that word? If no such word can be made give 'X' as the answer and if more than one such word can be made give 'Y' as the answer. **[SBI PO 2022]**
(A) X (B) O
(C) L (D) Y
(E) E
- Q.35** If it is possible to make only one 5-letter English word with the 1st, 3rd, 7th, 8th and 12th letters of the word 'APPROACHABLE', which of the following will be the second letter from the left end of that word? If no such word can be made give 'Y' as the answer and if more than one such word can be made give 'Z' as the answer. **[IBPS PO 2023]**
(A) Y (B) E
(C) Z (D) A
(E) R
- Q.36** If it is possible to make only one 4 letter meaningful word without repetition of letter with the first, seventh, ninth and the eleventh letters of the word 'CONSTUPRATE', which would be the second letter of the word? If more than one such word can be formed, give X as the answer. If no such word can be formed, give K as your answer. **[SBI PO 2021]**
(A) K (B) C
(C) A (D) E
(E) X
- Q.37** If it is possible to make only one 4 letter meaningful word without repetition of letter with the second, fourth, sixth and the eighth letters of the word 'DIALOGUE', which would be the second letter of the word? If more than one such word can be formed, give X as the answer. If no such word can be formed, give K as your answer. **[RRB Officer Scale - I 2021]**
(A) I (B) E
(C) G (D) X
(E) K
- Q.38** If in the word 'SOFTWARE', all the vowels are first arranged alphabetically and then all the consonants are arranged alphabetically and then all the vowels are replaced by the next letters and the consonants are replaced by the previous letters from English alphabet. Which letter will be fourth from the left end? **[IBPS Clerk 2020]**
(A) E (B) P
(C) Q (D) R
(E) F

ARRANGEMENT AND PATTERN

Q.39 If it is possible to make only one meaningful English word with the 3rd, 7th, 11th and 12th letters of the word CONCENTRATION, which of the following will be the third letter of that word? If no such word can be made give 'X' as the answer and if more than one such word can be made give 'Y' as the answer.

[IDBI Executive 2022]

- (A) C (B) I
(C) T (D) X
(E) Y

Q.40 If it is possible to make only one meaningful English word with the 1st, 3rd, 4th, and 5th letters of the word DEPRESSION, which of the following will be the third letter from left of that word? If no such word can be made give 'X' as the answer and if more than one such word can be made give 'Y' as the answer.

[RRB Officer Scale - I 2022]

- (A) E (B) R
(C) P (D) X
(E) Y

Q.41 If it is possible to make only one four-letter meaningful English word with the 4th, 8th, 10th and 11th letters of word GALACTOMETER, which of the following will be the second letter from the left of that word? If no such word can be made give 'X' as the answer and if more than one such word can be made give 'Y' as the answer.

[SBI PO 2022]

- (A) E (B) A
(C) Y (D) M
(E) X

Q.42 If it is possible to make only one meaningful English word with the 1st, 5th, 6th, and 8th letters of the word KNOWLEDGE, which of the following will be the third letter of that word? If no such word can be made give 'X' as the answer and if more than one such word can be made give 'Y' as the answer.

[IBPS PO 2023]

- (A) E (B) D
(C) P (D) X
(E) Y

Q.43 If it is possible to make only one meaningful English word with the 1st, 3rd, 5th, and 10th letters of the word MECHANICAL, which of the following will be the third letter of that word? If no such word can be made give 'X' as the answer and if more than one such word can be made give 'Y' as the answer.

[IBPS Clerk 2024]

- (A) M (B) L
(C) C (D) X
(E) Y

Q.44 1 is added to the first digit, subtracted from the second digit, added to the third digit, and so on in the number '597628537463'. The final number is formed by interchanging the digits of the resulting number, that is the first and the second digits are interchanged, the third and the fourth digits are interchanged and so on. What is the difference between the smallest three digit number in the number system and the sum of all the digits of the final number thus obtained? [SBI Clerk 2024]

- (A) 39 (B) 33
(C) 35 (D) 41
(E) 36

NUMBER ARRANGEMENT

Direction: Study the following numeric sequence and answer the question given below. 4 3 1 5 7 8
3 1 6 2 9 7 1 2 1 3 5 2 6 8 6 5 4 3 2 1 3 8 7

Q.45 How many odd numbers are there which are immediately preceded by a perfect square?

[IBPS Clerk 2022]

- (A) One (B) Two
(C) Three (D) Four
(E) More than four

Direction: The following questions are based on the five three-digit numbers given below.

483 396 625 834 967

Q.46 If 2 is added to the last digit of each number and then the positions of the first and the second digits are interchanged, which of the following will be the highest number?

[SBI Clerk 2022]

- (A) 396 (B) 625
(C) 967 (D) 834
(E) 483

ARRANGEMENT AND PATTERN

Direction: The following questions are based on the five numbers given below. 712 843 648 257 423

Q.47 If one is subtracted from the middle digit of all the numbers, then which of the following numbers is the largest?

[IBPS Clerk 2020]

- (A) 712 (B) 843
(C) 648 (D) 257
(E) 423

Direction: The following questions are based on the five three-digit numbers given below;

824 625 769 983 726

Q.48 How many numbers are greater than that the average of all the five numbers?

[SBI Clerk 2024]

- (A) 4 (B) 3
(C) 2 (D) 1
(E) 5

Direction: Following questions are based on the five four-digit numbers given below, Study the following numbers and answer the following question: 243 874 923 456 721

Q.49 If the first and the last digit are interchange in the given sequence then which of the following is the lowest number?

[IBPS Clerk 2022]

- (A) 243 (B) 874
(C) 923 (D) 456
(E) 721

Q.50 Directions: Read the given information carefully and answer the following questions. If 2 is added to each of the odd digits, 3 is subtracted from each of the even digits and we eliminate the second and third terms from the right side in the number '754846813', then the sum of prime numbers is.

[SBI PO 2023]

- (A) 17 (B) 20
(C) 15 (D) 12
(E) 18

Q.51 Directions: Read the given information carefully and answer the following questions. How many such pairs of digits are there in the number "2947159842", each of which has as many digits between them in the number (both forward and backward direction) as they have between them in the numerical series?

[IBPS PO 2023]

- (A) Five (B) Two
(C) Four (D) One
(E) Three

Q.52 If 3 is subtracted from all the digits greater than 5 and 2 is added to all the digits less than 5 in the number '847239671', then how many digits are repeated in the newly formed number? [IBPS Clerk 2024]

- (A) Three (B) Two
(C) None (D) Five
(E) Four

Q.53 If each of the odd digits in the number 8463247 is increased by '1' and each of the even digits is decreased by '1', then which of the following will be the sum of the digits of the number? [SBI Clerk 2025]

- (A) 32 (B) 31
(C) 28 (D) 29
(E) 30

Q.54 If in the number '7328856145' 2 is added to the odd numbers and 2 is subtracted from the even numbers, then find how many numbers are repeated more than once?

[RRB Officer Scale - I 2023]

- (A) One (B) Two
(C) Three (D) Four
(E) Five

Q.55 If in the number '78742639258' the prime numbered digits are increased by 1, then how many such digits are there in the number thus formed which appear only once?

[RRB Officer Scale - I 2023]

- (A) None (B) One
(C) Two (D) Three
(E) Four

Q.56 If odd digits in the given number "286354256" are increased by three and the even digit of the number is decreased by two, then what is the sum of all the digits of the number thus formed? [SBI PO 2023]

- (A) 40 (B) 30
(C) 38 (D) 35
(E) 34

MIXED SERIES

Directions: Study the following information carefully to answer the given questions:

M 1 E & D 2 G 9 \$ F @ 4 N Z W © 8 C Y A * 6

Q.57 Four of following five are alike in a certain way based on their positions in the above arrangement and so form a group. Which is the one that does not belong to that group?

[IBPS Clerk 2024]

- (A) ME2 (B) G\$4
(C) NWC (D) YA6
(E) None of these

ARRANGEMENT AND PATTERN

Directions: Study the following information carefully to answer the given questions: 6 U # 7 Y 8 X @ Q 9 L S % \$ V M 3 F 2 K 1 5 Z & 4 C * O ? D

Q.58 How many such numbers are there which are immediately preceded by a symbol in the given arrangement? [SBI Clerk 2022]

- (A) Two (B) One
(C) Three (D) Five
(E) Four

Direction: Read the following information carefully and answer the question asked below 7 M 4 \$ G U * 5 % @ X 3 # S & 2 9 Δ I 8 O 1 J © 6 V P ^

Step 1: The letters which are immediately preceded by number are to be arranged in the alphabetical order immediately after the last element of the series.

Step 2: The number which is immediately followed by another number and immediately preceded by the symbol are to be arranged in descending order immediately after the last element of the series.

Step 3: The symbol which is immediately preceded by a letter is to be interchange with the element that immediately followed that symbol.

Note – Step 2 is performed after completion of step 1 and step 3 is to be performed after completion of step 2.

Q.59 How many letters are there between the fourth element from the right and twelfth element from the right after completion of all the steps? [IBPS Clerk 2020]

- (A) One (B) Two
(C) Three (D) Four
(E) More than four

Direction: These questions are based on the following arrangement of letters, numbers and symbols. T 5 S # R 2 1 * A & Z 7 C ? 4 P 6 E 8 K Y @ 3 F \$

Q.60 How many such letters are there in the arrangement, each of which is immediately preceded by a number?

[IDBI Executive 2022]

- (A) Two (B) Three
(C) Four (D) Five
(E) More than five

Direction: Study the following arrangement carefully and answer the questions given below:

N T * I A ^ \$ J # B * B U A R Q D & L O @ P T ! F

Q.61 How many such symbols are there in the above series which is immediately followed by a consonant and immediately preceded by vowel? [SBI Clerk 2022]

- (A) Two (B) Three
(C) One (D) Four
(E) None of these

Directions: Refer to the alphanumeric series given below and answer the following questions: 5 3 9 L 5 6 G 8 C 9 2 5 S 8 1 M 5 R Y 8 3 T D A 6 U H Y 6 J 2 1 E F O

Q.62 Choose the pair which follows the same logic G5C, S21, Y53, 6DH, ?

[IBPS Clerk 2020]

- (A) 26E (B) 2JF
(C) 1JE (D) PYR
(E) None of these

Direction: Study the following arrangement and answer the question: 7 T @ 5 M D 9 X % V O \$ 2 B ! 7 3 > 6 G & K 1

Q.63 If all the symbols are dropped from the arrangement then which element will be the 4th element to the left of the 2nd element from the right end of the arrangement to form? [IBPS Clerk 2023]

- (A) 2 (B) B
(C) 3 (D) 7
(E) O

Direction: Study the following arrangement and answer the given question carefully B # M I N E & > G P * F \$ X R % A ? @ D ! Q

Q.64 How many symbols are there between 4th element from the right end and E?

[IBPS Clerk 2023]

- (A) Four (B) Six
(C) Five (D) Three
(E) Seven

Direction: Study the following arrangement carefully and answer the questions:

H % 1 P ! F S ? * X 7 C T 4 \$ 9 3 > @ / 6 N Q 5

Q.65 How many letters are immediately preceded by consonants and immediately followed by a symbol? [SBI Clerk 2024]

- (A) None (B) One
(C) Two (D) Three
(E) Four

Directions: Study the following information carefully to answer the given questions: E 4 W 2 G 6 @ S 5 8 X A ! I M 9 & Q ^ J L # 7 * C \$ G V % K

Q.66 Four of following five are alike in a certain way based on their positions in the above arrangement and so form a group. Which is the one that does not belong to that group?

[SBI Clerk 2025]

- (A) W@G (B) XM!
(C) @X5 (D) LC7
(E) &^M

Directions: Study the following information carefully to answer the given questions: 2 P J # 8 @ L B 1 V * Q 6 < G W 9 K C D 3 & % > 5 F R 7 A Y 4

ARRANGEMENT AND PATTERN

Q.67 Four of the following five are similar in relation to their positions in the above sequence and hence form a group. Which one does not belong to that group?

[IBPS Clerk 2023]

- | | |
|-----------|-----------|
| (A) Q K 5 | (B) L 6 D |
| (C) P L < | (D) 1 G & |
| (E) K > 4 | |

Directions: Study the following information carefully to answer the given questions: V @ 2 3 K 6 # P % S 1 7 & * G I © 5 9 8 \$ Y D A € 4 ¥ Z B O

Q.68 Four of the following five are alike in a certain way based on their positions in the above arrangement and so form a group. Which is the one that does not belong to that group?

[IBPS Clerk 2023]

- | | |
|-----------|----------|
| (A) 2@V | (B) P#6 |
| (C) 5(C)I | (D) 9\$Y |
| (E) Z¥4 | |

Directions: Study the following information carefully to answer the given questions. 3 @ K P 5 % R S D 7 © G L N W 9 € # 6 2 C Q Y 1 H J T 4 & U M X @

Q.69 Four of the following five are alike in a certain way based on their positions in the above arrangement and so form a group. Which is the one that does not belong to that group?

[SBI Clerk 2024]

- | | |
|---------|---------|
| (A) 5%R | (B) #6C |
| (C) T4& | (D) P5% |
| (E) @KP | |

Direction: Study the following information carefully to answer the given questions: M O P 6 9 2 R Q A 4 E N U 1 G F 2 3 L T 1 S 5 H Y 4 D Z 6 I J 1

Q.70 How many such consonants are there in the above arrangement which is immediately preceded by vowel and followed by a number?

[IBPS Clerk 2021]

- | | |
|-------|-------|
| (A) 2 | (B) 1 |
| (C) 3 | (D) 5 |
| (E) 4 | |

ANSWER KEY

Ques.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Ans.	B	E	A	D	A	C	B	E	E	D	E	E	E	D	D
Ques.	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Ans.	A	C	B	A	C	B	D	E	A	E	D	E	D	D	D
Ques.	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
Ans.	E	C	A	D	C	E	E	A	C	B	C	D	E	C	E
Ques.	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
Ans.	A	B	C	E	B	A	E	B	B	B	C	D	A	B	E
Ques.	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75
Ans.	C	A	D	B	B	E	C	D	B	A					