

## Reasoning

### Letter Series

Pattern Type	Description	Example	Explanation
<b>1. Constant Forward Shift</b>	Each letter moves forward by a fixed number.	A, C, E, G	+2 shift: A(1), C(3), E(5), G(7)
<b>2. Constant Backward Shift</b>	Each letter moves backward by a fixed number.	Z, X, V, T	-2 shift: Z(26), X(24), V(22), T(20)
<b>3. Alternate Forward &amp; Backward</b>	Pattern alternates between forward and backward shifts.	A, C, B, D, C, E	+2, -1 alternation
<b>4. Odd Position Letters</b>	Series includes only letters at odd positions in the alphabet.	A, C, E, G	A(1), C(3), E(5), G(7)
<b>5. Even Position Letters</b>	Series includes only letters at even positions.	B, D, F, H	B(2), D(4), F(6), H(8)
<b>6. Repetition Series</b>	One or more letters repeat in a fixed pattern.	A, B, A, B, A, B	Alternating repetition of A and B
<b>7. Reverse Series</b>	Letters are listed in reverse alphabetical order.	Z, Y, X, W	Z(26), Y(25), X(24), W(23)
<b>8. Mirror Series</b>	Series reflects around a central point.	A, B, C, B, A	Mirror at C
<b>9. Skipping Letters</b>	One or more letters skipped between each.	A, D, G, J	+3 skips each time
<b>10. Alphabet + Number Mapping</b>	Letters represented with positions, follow a numerical logic.	D, G, J, M	D(4), G(7), J(10), M(13): +3
<b>11. Fixed Group Shift</b>	Whole blocks of letters shift positions.	ABC, DEF, GHI	+3 per group
<b>12. Rotation within a group</b>	Letters rotate their positions within a group.	ABC → BCA → CAB	Circular shift
<b>13. Vowel-Consonant Alternation</b>	Alternating vowels and consonants.	A, B, E, F, I, J	Vowel (A, E, I), Consonant (B, F, J)
<b>14. Coding/Decoding Logic</b>	Letters follow coded shift logic (e.g., +3, -1 etc.).	M, P, S, V	M(13), P(16), S(19), V(22) → +3 logic
<b>15. Symmetric Series</b>	Beginning and end elements mirror each other.	A, B, C, D, C, B, A	Symmetry around D
<b>16. Dual Series</b>	Two interleaved letter series.	A, X, B, W, C, V	A, B, C (+1), X, W, V (-1) → Two separate series
<b>17. Increasing Difference</b>	Gap between letters increases regularly.	A, C, F, J	+2, +3, +4
<b>18. Z-A Reverse Pattern</b>	Letters from the end of the alphabet.	Z, X, V, T	-2 each step
<b>19. Position-Based Word Letters</b>	Each letter picked from a specific position in a sequence of words.	First letter of each word: CAT, DOG, EGG → C, D, E	Based on position in word
<b>20. Combination Series</b>	Combination of two or more patterns (e.g., skipping + alternating).	A, C, B, D, C, E	Mix of skip and alternation

### Number Series

Pattern Type	Identification Clue	Logic / Rule	Example
<b>1. Arithmetic Series</b>	Constant difference	Add/Subtract same number	2, 5, 8, 11, 14, <b>17</b> (+3)
<b>2. Geometric Series</b>	Constant multiplication/division	Multiply/Divide by same number	3, 6, 12, 24, <b>48</b> (×2)
<b>3. Square Series</b>	Numbers are perfect squares	Square of natural numbers	1, 4, 9, 16, 25, <b>36</b> (1 <sup>2</sup> , 2 <sup>2</sup> ...)
<b>4. Cube Series</b>	Numbers are perfect cubes	Cube of natural numbers	1, 8, 27, 64, <b>125</b> (1 <sup>3</sup> , 2 <sup>3</sup> ...)
<b>5. Alternating Pattern</b>	Every 2nd or 3rd number differs	Alternate addition/subtraction/multiplication	3, 6, 5, 10, 7, 14, <b>9</b> (+3, -1, ×2...)
<b>6. Prime Number Series</b>	Series of prime numbers	Consecutive primes used	2, 3, 5, 7, 11, <b>13</b>

7. Even/Odd Series	All numbers even or odd	Increase in even/odd numbers	2, 4, 6, 8, <b>10</b> or 1, 3, 5, 7, <b>9</b>
8. Fibonacci Series	Sum of last two terms	Each term = sum of previous two	1, 1, 2, 3, 5, 8, <b>13</b>
9. Mixed Operations	Combo of add, subtract, multiply	Repeating or changing operation	2, 4, 12, 36, <b>108</b> ( $\times 2$ , $\times 3$ ...)
10. Square + Constant	Square of n plus a number	$n^2 + k$ or $n^2 - k$	1, 5, 10, 17, 26, <b>37</b> ( $1^2+0$ , $2^2+1$ , $3^2+1$ ...)
11. Cube + Constant	Cube of n plus a number	$n^3 + k$ or $n^3 - k$	1, 9, 35, 91, <b>189</b> ( $1^3+0$ , $2^3+1$ , $3^3+8$ ...)
12. Difference of Differences	2nd level difference is constant	First differences are not equal, but their difference is	1, 3, 7, 13, 21, <b>31</b> (diffs: +2, +4, +6...)
13. Position-based Pattern	Involves place value (A=1, B=2...)	Pattern based on index or position	1, 4, 9, 16, <b>25</b> (position <sup>2</sup> )
14. Reverse Pattern	Pattern is backward	Decreasing order by logic	100, 50, 25, 12.5, <b>6.25</b> ( $\div 2$ )
15. Decimal/Fraction Series	Use of decimals or fractions	Multiply or divide by decimal/fraction	1, 0.5, 0.25, 0.125, <b>0.0625</b> ( $\div 2$ )
16. Exponential Growth	Rapid increase	$2^n$ , $3^n$ , etc.	2, 4, 8, 16, 32, <b>64</b>
17. Multiples of N	All terms are divisible by a number	Multiple of fixed number	5, 10, 15, 20, <b>25</b> ( $\times 5$ )
18. Double Series (Two Series Combined)	Two patterns interleaved	Alternate terms follow different rules	1, 4, 2, 8, 3, 16, <b>4</b> (+1 and $\times 2$ )

### Alpha-Numeric Series

Pattern Type	Description	What to Observe	Example
<b>1. Letter-Number-Symbol Repeat Pattern</b>	Fixed cycle of letters, numbers, and symbols.	Identify the recurring unit.	A1@ B2# C3\$ D4% → Pattern: [Letter + Number + Symbol]
<b>2. Symbol Pattern</b>	Symbols inserted at fixed positions or alternated.	Look for every 2nd, 3rd, or even/odd pattern.	A#B C#D E#F → # after every letter pair
<b>3. Alternate Letter-Number</b>	Alternating between letters and numbers.	See sequence of positions (A=1).	A 1 C 3 E 5 → Odd position letters and numbers
<b>4. Repetition Pattern</b>	Some elements are repeated at fixed intervals.	Count frequency and positions.	A1B A2C A3D → 'A' repeated every 3 units
<b>5. Coding Based on Position</b>	Element's code is its position or reverse.	Match index position in series.	3rd element = C, C → 3
<b>6. Mixed Logic (Alpha + Num + Sym)</b>	Combination pattern involving all.	Decode letters, values, and positions together.	B2@ D4# F6\$ → Letter+Even Number+Symbol
<b>7. Increasing Length Pattern</b>	Number of elements in a block increase/decrease.	Observe group sizes.	A1, B2C3, D4E5F6 → Elements in 1, 2, 3 format

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