

Number series

— *Tarkशक्ति by Mohit Kawatra* 

- | | |
|---|---|
| 1. 118, 93, 76, 67, 62, ?
SSC CPO 11/11/2022
(a) 59 (b) 60
(c) 61 (d) 58 | 6. 8, 9, 5, 16, 27, 25, 32, 81, 125, ?, 243, ?
SSC CPO 05/07/2022
(a) 325, 64 (b) 375, 64
(c) 64, 375 (d) 64, 625 |
| 2. 58, 117, 237, 479, 965, ?
SSC CHSL 31/05/2022
(a) 1939 (b) 1930
(c) 1929 (d) 1929 | 7. 16, 32, 8, 48, 6, 60, 5, ?
SSC MTS 12/10/2021
(a) 70 (b) 65
(c) 75 (d) 60 |
| 3. In the Following number series, two numbers have been put with in brackets. Select the most appropriate option for these numbers in relation to their inclusion in the series.
निम्नलिखित संख्या श्रृंखला में, दो संख्याओं को कोष्ठक में रखा गया है। श्रृंखला में उनके समावेश के संबंध में इन संख्याओं के लिए सबसे उपयुक्त विकल्प का चयन करें।
1, 5, 17, (39), 65, 101, (145), 197
SSC CPO 09/12/2019
(a) The first bracketed number from the left is correct and the second bracketed number from the left is incorrect.
बाईं ओर से पहली ब्रैकेट संख्या सही है और बाईं ओर से दूसरी ब्रेककी गई संख्या गलत है।
(b) Both the bracketed numbers are incorrect.
ब्रैकेट की गई दोनों संख्याएं गलत हैं।
(c) Both the bracketed numbers are correct.
दोनों ब्रैकेट संख्याएं सही हैं।
(d) The first bracketed number from the left is incorrect and the second bracketed number from the left is correct.
बाईं ओर से पहली ब्रैकेट संख्या गलत है और बाईं ओर से दूसरी ब्रैकेट संख्या सही है। | 8. 482, 239, 158, 131, 122, ?
SSC MTS 20/07/2022
(a) 121 (b) 119
(c) 117 (d) 113 |
| | 9. 11, ?, 29, 53, 101, 197
SSC CGL 20/07/2023
(a) 19 (b) 13
(c) 21 (d) 17 |
| | 10. 57, 69, 88, 112, 150, 186, 243
SSC CGL 25/07/2023
(a) 286 (b) 289
(c) 291 (d) 300 |
| | 11. 18, 20, 22, 27, 32, 39, ?
SSC CGL 24/07/2023
(a) 47 (b) 42
(c) 46 (d) 45 |
| | 12. 108, 129, 104, ?, 100, 137, 96
SSC MTS 02/05/2023
(a) 138 (b) 133
(c) 135 (d) 140 |
| | 13. 9, 45, 180, ?, 1080, 1080
SSC CGL 27/06/2023
(a) 540 (b) 520
(c) 360 (d) 480 |
| | 14. 73, 57, 43, 31, ?, 13
Matriculation level 27/06/2023
(a) 27 (b) 25
(c) 29 (d) 21 |
| 4. 458, 462, 446, 482, ?, 518
SSC CHSL 24/05/2022
(a) 428 (b) 546
(c) 546 (d) 418 | 15. 3, 4, 7, 11, 18, 29, ?
SSC CHSL 13/03/2023
(a) 48 (b) 46
(c) 45 (d) 47 |
| 5. 256, 123, 66, ?, 18, 6
SSC MTS 12/10/2021
(a) 32 (b) 27
(c) 29 (d) 33 | |

16. 35, 22, 43, 14, 51, ?
SSC MTS 15/06/2023
 (a) 6 (b) 18
 (c) 20 (d) 12
17. 81, 243, 40.5, 121.5, 20.25, 60.75, ?
SSC MTS 15/05/2023
 (a) 10.120 (b) 10.115
 (c) 10.125 (d) 10.215
18. 25, -75, 225, -675, 2025, ?
SSC MTS 16/06/2023
 (a) -5160 (b) -6075
 (c) -7250 (d) -8400
19. 10, 4, 3, 3.5, 6, ?
SSC MTS 17/05/2023
 (a) 9 (b) 14
 (c) 10 (d) 12
20. 189, 532, 316, ?, 377
SSC CGL 03/03/2023
 (a) 384 (b) 291
 (c) 441 (d) 405

Answer key:-

1.(c)	2.(a)	3.(d)	4.(d)	5.(c)
6.(d)	7.(a)	8.(b)	9.(d)	10.(c)
11.(c)	12.(b)	13.(a)	14.(d)	15.(d)
16.(a)	17.(c)	18.(b)	19.(b)	20.(c)

Solution

1. (c) $118 \quad 93 \quad 76 \quad 67 \quad 62 \quad 61$
 $\begin{array}{cccccc} & \swarrow & \swarrow & \swarrow & \swarrow & \swarrow \\ & -25 & -17 & -9 & -5 & -1 \\ & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ & 5^2 & 4^2+1 & 3^2 & 2^2+1 & 1^2 \end{array}$

2.(a) $58 \quad 117 \quad 237 \quad 479 \quad 965 \quad 1939$
 $\begin{array}{ccccc} | & | & | & | & | \\ \times 2+1 & \times 2+3 & \times 2+5 & \times 2+7 & \times 2+9 \end{array}$

3.(d) $1 \quad 5 \quad 17 \quad 39 \quad 65 \quad 101 \quad 145 \quad 197$
 $\begin{array}{ccccccc} & & & 37 & & & & \\ & \downarrow \\ 0^2+1 & 2^2+1 & 4^2+1 & 6^2+1 & 8^2+1 & 10^2+1 & 12^2+1 & 14^2+1 \end{array}$
 So, 39 is wrong and it should be 37.
 So, the first number in the bracket is wrong and the second is right.

4.(d) $458 \quad 462 \quad 446 \quad 482 \quad 418 \quad 518$
 $\begin{array}{ccccc} | & | & | & | & | \\ +4 & -16 & +36 & -64 & +100 \\ \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ +(2)^2 & -(4)^2 & +(6)^2 & -(8)^2 & +(10)^2 \end{array}$

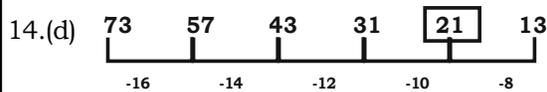
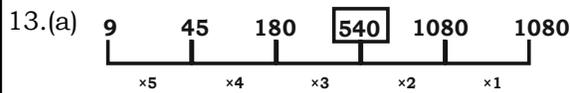
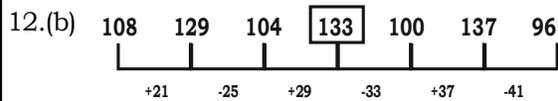
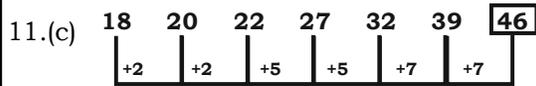
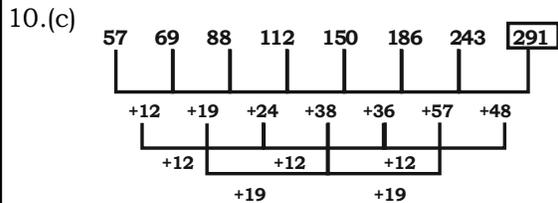
5.(c) $256 \quad 123 \quad 66 \quad 29 \quad 18 \quad 6$
 $\begin{array}{ccccc} | & | & | & | & | \\ -10 \div 2 & +9 \div 2 & -8 \div 2 & +7 \div 2 & -6 \div 2 \end{array}$

6.(d) $8 \quad 9 \quad 5 \quad 16 \quad 27 \quad 25 \quad 32 \quad 81 \quad 125 \quad 64 \quad 243 \quad 625$
 $\begin{array}{cccccc} & \times 5 & & \times 5 & & \times 5 \\ & \downarrow & & \downarrow & & \downarrow \\ & \times 3 & & \times 3 & & \times 3 \\ & \downarrow & & \downarrow & & \downarrow \\ \times 2 & & \times 2 & & \times 2 & \end{array}$

7.(a) $16 \quad 32 \quad 8 \quad 48 \quad 6 \quad 60 \quad 5 \quad 70$
 $\begin{array}{cccccc} | & | & | & | & | & | \\ \times 2 & 1/4 & \times 6 & 1/8 & \times 10 & 1/12 & \times 14 \end{array}$

8.(b) $482 \quad 239 \quad 158 \quad 131 \quad 122 \quad 119$
 $\begin{array}{ccccc} | & | & | & | & | \\ -3^5 & -3^4 & -3^3 & -3^2 & -3^1 \end{array}$

9.(d) $11 \quad 17 \quad 29 \quad 53 \quad 101 \quad 197$
 $\begin{array}{ccccc} | & | & | & | & | \\ +6 & +12 & +24 & +48 & +96 \\ \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ \times 2 & \times 2 & \times 2 & \times 2 & \end{array}$



15.(d) **Logic :-** Sum of previous two term is equal to next term.
3, 4, 7, 11, 18, 29, ?
 $3 + 4 = 7$, $4 + 7 = 11$, $7 + 11 = 18$,
 $18 + 29 = 47$

