

Foundation Batch



REASONING

Number Series

Part -7

LIVE 06-06-2024 **11:00PM**



Foundation Batch REASONING

1. 160, 183, 213, 252, 302, ?, 443

365
160, 183, 213, 252, 302, ?, 443
23 30 39 50 63
7 9 11 13

(a) 361

(b) 333

(c) 379

✓ (d) 365

(SSC CPO 2020)

2. Choose the correct alternative ones that will from given ones complete the series:

दिए गए विकल्पों में से वह सही विकल्प चुनें जो श्रृंखला को पूरा करेगा:

20, 20, 24, 42, 90, (?)

(a) 180

(b) 190

(c) 200

(d) 210

(Jail Warder 20/12/2020, Shift 1)

Handwritten solution showing the sequence and differences:

20, 20, 24, 42, 90, ?

Differences: 0, 4, 18, 48, 100

Second differences: 4, 14, 30, 52

Third differences: 10, 16, 22

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REASONING

3. 8, 17, ?, 197, 773, 3077

(a) 45

✓(b) 53

(c) 57

(d) 69

(SSC CHSL Pre 2/8/2023 Shift 2)

53
8, 17, ?, 197, 773, 3077
9 36 144 576 2304
(3)² (6)² (12)² (24)² (48)²

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4. 57, 69, 88, 112, 150, 186, 243, ?

57, 69, 88, 112, 150, 186, 243, ?
12, 19, 24, 38, 36, 57, 48

(a) 286

(b) 300

(c) 289

✓(d) 291

(SSC CGL Pre 25/7/2023 Shift 3)

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5. 11, 14, 26, 53, 101, ?

11, 14, 26, 53, 101, ?
3 12 27 48 75
9 15 21 27

(a) 162

☒ (b) 176

(c) 168

(d) 154

(SSC GD, 1/12/2021, Shift-II)

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56
2, 12, 30, ?, 90, 132
10 18 26 34 42
8 8 8 8

6. 2, 12, 30, ?, 90, 132

(a) 48

☒ (b) 56

(c) 63

(d) 72

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7. 3, 20, 63, 144, 275, ?

(a) 554

(b) 548

✓ (c) 468

(d) 354

3, 20, 63, 144, 275, ?
17, 43, 81, 131, 193
26, 38, 50, 62

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$$\begin{array}{l} x^2 - (2)^2 \quad x^4 - (4)^2 \\ \text{2, 3, 2, 15, ? , 245} \\ x^1 + (1)^2 \quad x^3 + (3)^2 \quad x^5 + (5)^2 \end{array}$$

8. 2, 3, 2, 15, _____, 245

- ☒ (a) 44
- (b) 74
- (c) 54
- (d) 144

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- (1)² - 1
- (2)² - 2
- (3)² - 1
- (4)² - 2
- (5)² - 1
- (6)² - 2
- (7)² - 1
- (8)² - 2

9. 0, 2, 8, 14, 24, 34, _____, 62

- (a) 40
- (b) 42
- ✓ (c) 48
- (d) 52

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10. 6, 20, 36, 48, 50, _____, 0

(a) 56

(b) 46

✓ (c) 36

(d) 48

6, 20, 36, 48, 50, ?, 0
(1)² (2)² (3)² (4)² (5)² (6)² (7)²
x6 x5 x4 x3 x2 x1 x0

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$(1)^2$
 $(4)^2$
 $(9)^2$
 $(16)^2$
 $(25)^2$
 $(36)^2$

11. 1, 16, 81, 256, 625, ?

- ✓ (a) 1296
- (b) 1225
- (c) 2225
- (d) 4163



12. 1, 1, 5, 21, 57, 121, ?

(a) 212

✓ (b) 221

(c) 233

(d) 222

1, 1, 5, 21, 57, 121, ?
0, 4, 16, 36, 64, 100

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REASONING

13. 3, 12, 27, 48, 75, 108, ?

3, 12, 27, 48, 75, 108, ?

9 15 21 27 33 39

(a) 162

(b) 183

(c) 192

(d) 147

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$$\begin{array}{cccc} (1)^3 - 1 & (2)^3 - 1 & (3)^3 - 1 & (4)^3 - 1 \\ 0, 0, 3, 7, 8, 26, 15, ? \\ (1)^2 - 1 & (2)^2 - 1 & (3)^2 - 1 & (4)^2 - 1 \end{array}$$

14. 0, 0, 3, 7, 8, 26, 15, ?

- (a) 40
- (b) 48
- ✓ (c) 63
- (d) 65