

Number Series Most Asked Common Pattern (Last 5 years)

Q1. 200, 193, 179, 158, ?, 95

- (a) 135
- (b) 133
- (c) 132
- (d) 130
- (e) 128

Q2. 9, 45, 180, 540, ?, 1080

- (a) 720
- (b) 900
- (c) 1080
- (d) 1200
- (e) 960

Q3. 2, 3, 6, 15, 45, 156.5, 630

- (a) 2
- (b) 15
- (c) 3
- (d) 156.5
- (e) 630

Q4. 23, 33, 18, 38, 13, ?

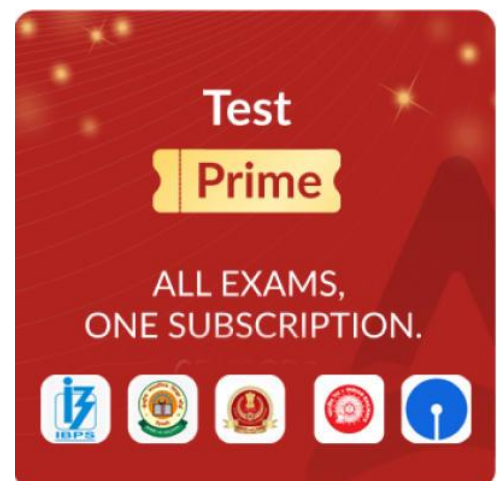
- (a) 24
- (b) 25
- (c) 44
- (d) 50
- (e) 43

Q5. 3, 43, 81, 115, 143, ?

- (a) 163
- (b) 172
- (c) 166
- (d) 160
- (e) 168


Q6. 7, 12, 19, 30, ?, 72

- (a) 47
- (b) 41
- (c) 27
- (d) 39
- (e) 35



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Q7. 36, 20, 12, 8, 6, 5.5, 4.5

- (a) 8
- (b) 36
- (c) 5.5
- (d) 4.5
- (e) 6

Q8. 1, 6, 25, 76, 153, ?

- (a) 152
- (b) 154
- (c) 153
- (d) 155
- (e) 156

Q9. 10, 9, 16, 45, ?, 875

- (a) 175
- (b) 177
- (c) 178
- (d) 176
- (e) 180

Q10. 5, 6, 13, 40, 161, ?

- (a) 806
- (b) 508
- (c) 624
- (d) 756
- (e) 842

Q11. 1, 3, 9, 31, 128, 651, 3913

- (a) 31
- (b) 3
- (c) 1
- (d) 3913
- (e) 128

Q12. 5, 8, 16, 26, 50, 98, 194

- (a) 5
- (b) 194
- (c) 8
- (d) 16
- (e) 98



Q13. 50, 54, 45, 61, 36, ?

- (a) 66
- (b) 72
- (c) 75
- (d) 80
- (e) 84

Q14. 196, 169, ?, 121, 100, 81

- (a) 132
- (b) 144
- (c) 142
- (d) 154
- (e) 136

Q15. 2, 3, 10, 40, 172, 885, 5346

- (a) 40
- (b) 885
- (c) 172
- (d) 3
- (e) 10

Q16. 44, 60, 80, 105, 136, ?

- (a) 152
- (b) 164
- (c) 160
- (d) 174
- (e) 178

Q17. 32, 39, 34, 41, ?, 43

- (a) 38
- (b) 39
- (c) 37
- (d) 40
- (e) 36

Q18. 1, 2, 5, 16, 65, 328, 1957

- (a) 5
- (b) 328
- (c) 16
- (d) 1957
- (e) 65

Q19. 84, 96, 83, 95, 80, 94, 81

- (a) 95
- (b) 81
- (c) 83
- (d) 80
- (e) 84



Q20. 11, ?, 16, 21, 29, 41

- (a) 12
- (b) 14
- (c) 15
- (d) 13
- (e) 11

Q21. 0, 6, 24, 60, ?, 210

- (a) 130
- (b) 170
- (c) 90
- (d) 120
- (e) 150

Q22. 16, 17.8, 21.4, 28.6, 43, ?

- (a) 69.8
- (b) 72.8
- (c) 73.8
- (d) 70.8
- (e) 71.8

Q23. 12, 7, 8, 13, ?, 68.5

- (a) 28
- (b) 27
- (c) 26
- (d) 27.5
- (e) 26.5

Q24. 15, 8, 9, 15, 32, ?

- (a) 66
- (b) 99
- (c) 80
- (d) 82.5
- (e) 80.5

Q25. 72000, 36000, 12000, 3000, 600, ?

- (a) 120
- (b) 200
- (c) 300
- (d) 150
- (e) 100

Q26. 60, 61, 86, 167, 336, 627, 1066

- (a) 336
- (b) 86
- (c) 627
- (d) 1066
- (e) 61

Q27. 1, 1.5, 3.5, 11, 44.5, 224, 1338.5

- (a) 1.5
- (b) 1338.5
- (c) 44.5
- (d) 224
- (e) 11

Q28. 56, 76, 99, 125, 154, 186, 223

- (a) 56
- (b) 76
- (c) 99
- (d) 154
- (e) 223

Q29. 9, 14, 24, 41, 67, ?

- (a) 97
- (b) 89
- (c) 104
- (d) 110
- (e) 115

Q30. 7, 3.5, 3.5, 7, 28, ?

- (a) 280
- (b) 240
- (c) 150
- (d) 180
- (e) 224

Q31. 45, 49, 40, 65, 16, ?

- (a) 137
- (b) 121
- (c) 97
- (d) 143
- (e) 109



Q32. 50, 75, 175, 400, 800, ?

- (a) 1435
- (b) 1425
- (c) 1415
- (d) 1405
- (e) 1375

Q33. 8, 18, 38, 78, ?, 318

- (a) 178
- (b) 168
- (c) 154
- (d) 148
- (e) 158

Q34. 41, ?, 53, 64, 77, 94

- (a) 48
- (b) 46
- (c) 43
- (d) 49
- (e) 41

Q35. 1, 2, 5, 10, 17, ?

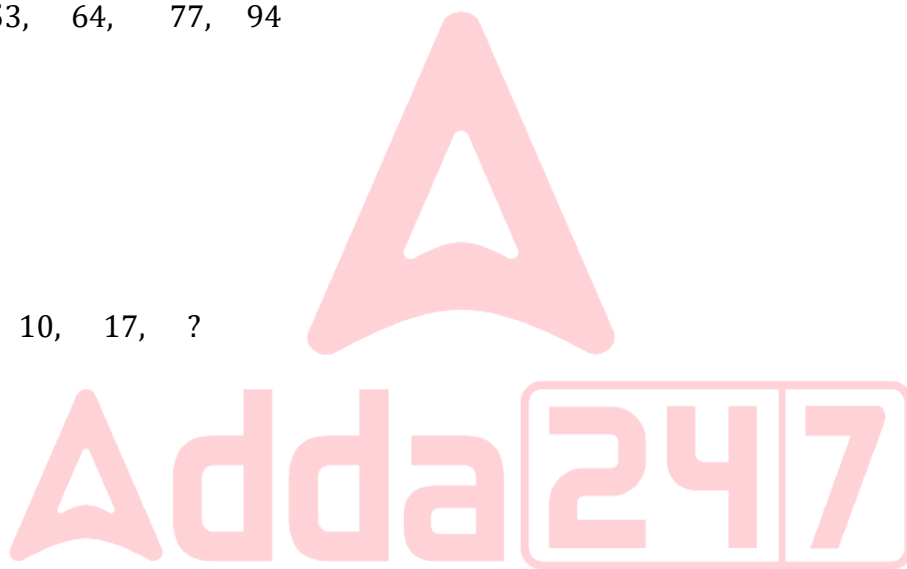
- (a) 24
- (b) 25
- (c) 26
- (d) 27
- (e) 28

Q36. 8, 12, 20, 36, 68, ?

- (a) 132
- (b) 120
- (c) 124
- (d) 136
- (e) 128

Q37. 2, ?, 30, 74, 154, 282

- (a) 16
- (b) 18
- (c) 12
- (d) 10
- (e) 15



Q38. 27, 48, 80, 134, 221, 355, 538

- (a) 27
- (b) 355
- (c) 80
- (d) 134
- (e) 538

Q39. 146, 145, 149, 122, 138, 15, 49

- (a) 138
- (b) 122
- (c) 15
- (d) 146
- (e) 149

Q40. 1.7, 3.0, 5.6, 9.5, 14.7, 21.8, 29

- (a) 3.0
- (b) 9.5
- (c) 21.8
- (d) 14.7
- (e) 29

Q41. 49, 100, 202, 406, 814, 1633, 3262

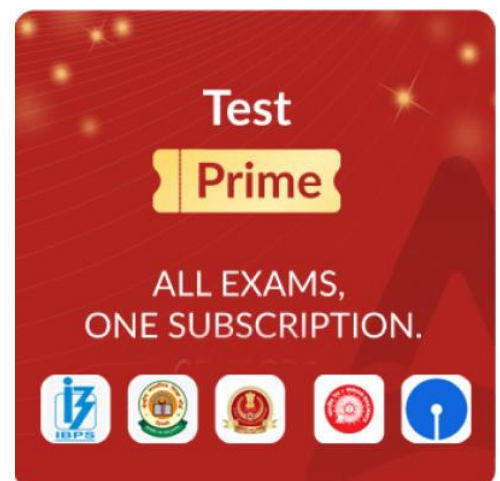
- (a) 100
- (b) 3262
- (c) 406
- (d) 814
- (e) 1633

Q42. 3, 10, 36, 99, 223, 440, 780

- (a) 440
- (b) 10
- (c) 36
- (d) 99
- (e) 223


Q43. 1.5, 9, 51, 205, 616, 1233, 1234

- (a) 616
- (b) 51
- (c) 1.5
- (d) 1233
- (e) 9



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Q44. 6, 1, 60, 2, 600, 20, 6000

- (a) 6
- (b) 1
- (c) 2
- (d) 600
- (e) 20

Q45. 49, 121, 169, 289, ?, 529

- (a) 361
- (b) 225
- (c) 441
- (d) 196
- (e) 484

Q46. 4.8, 6.1, 7.6, 9.3, 11.2, ?

- (a) 13.3
- (b) 12.4
- (c) 11.9
- (d) 13.6
- (e) 13.9

Q47. 400, 689, 1050, 1579, 2306, 3381, 4750

- (a) 2306
- (b) 689
- (c) 4750
- (d) 3381
- (e) 400

Q48. 53, 75, ?, 125, 153, 183

- (a) 100
- (b) 105
- (c) 95
- (d) 99
- (e) 92

Q49. 4320, 4337, 4463, 4500, 4844, 4910, 5639

- (a) 4320
- (b) 4910
- (c) 5639
- (d) 4844
- (e) 4463

Q50. 3, 4, 8, 24, 88, 364, 1368

- (a) 1368
- (b) 24
- (c) 88
- (d) 8
- (e) 364

Q51. 1736, 1751, 1776, 1821, 1896, 2012, 2176

- (a) 1751
- (b) 1821
- (c) 1896
- (d) 2012
- (e) 1736

Q52. 10, 21, ?, 25, 6, 29

- (a) 8
- (b) 7
- (c) 23
- (d) 34
- (e) 10

Q53. 100, 101, 103, 109, 133, ?

- (a) 253
- (b) 216
- (c) 240
- (d) 200
- (e) 210

Q54. 12600, 1800, 300, 60, ?, 5

- (a) 15
- (b) 16
- (c) 40
- (d) 20
- (e) 30

Q55. 21, ?, 135, 544, 2725, 16356

- (a) 105
- (b) 84
- (c) 100
- (d) 24
- (e) 44



Q56. 8, 27, 125, 343, 121, 2197, 4913

- (a) 27
- (b) 121
- (c) 8
- (d) 343
- (e) 4913

Q57. 22, 24.5, 29.5, 37, 47, ?

- (a) 57.5
- (b) 61.5
- (c) 60.5
- (d) 59.5
- (e) 67

Q58. 38, 35, 70, 280, 1680, 13440, 134400

- (a) 38
- (b) 35
- (c) 70
- (d) 280
- (e) 1680

Q59. 100, 240, 480, 1344, 4300.8, 15482.88, 61931.52

- (a) 240
- (b) 61931.52
- (c) 15482.88
- (d) 1344
- (e) 100

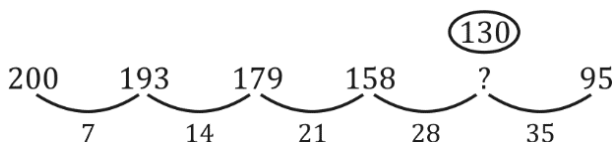
Q60. 309, 516, 932, 1764, 3428, 6756, 13412

- (a) 1764
- (b) 309
- (c) 516
- (d) 6756
- (e) 932

Solutions

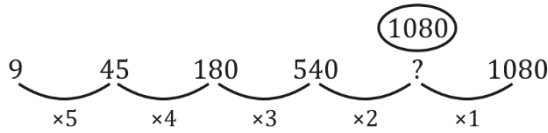
S1. Ans.(d)

Sol.



S2. Ans.(c)

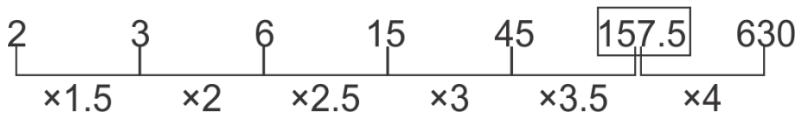
Sol.



S3. Ans.(d)

Sol. Wrong number = 156.5

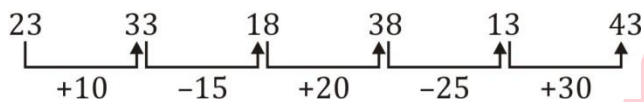
Pattern of series-



So, there should be 157.5 in place of 156.5.

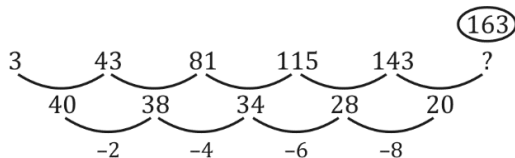
S4. Ans.(e)

Sol.



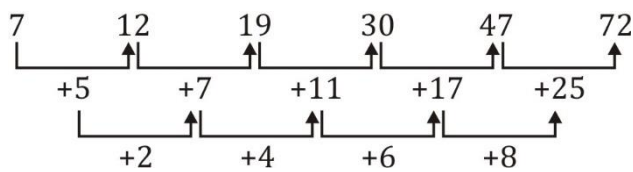
S5. Ans.(a)

Sol.



S6. Ans.(a)

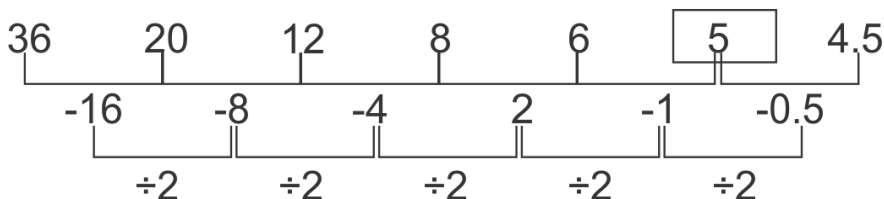
Sol.



S7. Ans.(c)

Sol. Wrong number = 5.5

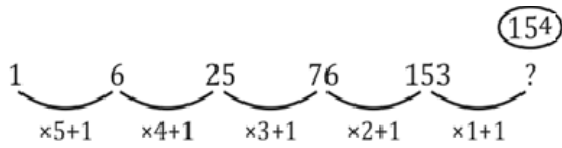
Pattern of series-



So, there should be 5 in place of 5.5

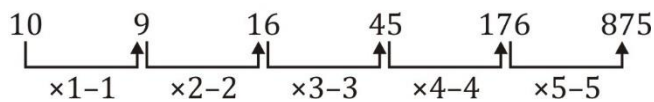
S8. Ans.(b)

Sol.



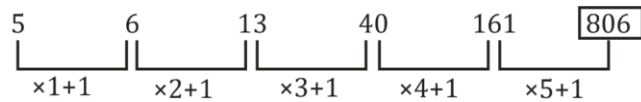
S9. Ans.(d)

Sol.



S10. Ans.(a)

Sol. Pattern of series -

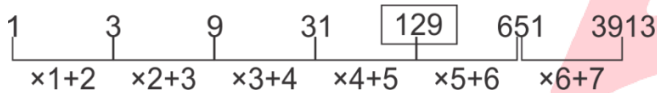


So, missing number is 806.

S11. Ans.(e)

Sol. Wrong number = 128

Pattern of series -

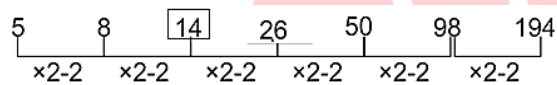


So, there should be 129 in place of 128

S12. Ans.(d)

Sol. Wrong number = 16

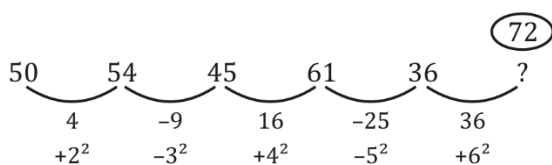
Pattern of series -



So, there should be 14 in place of 16.

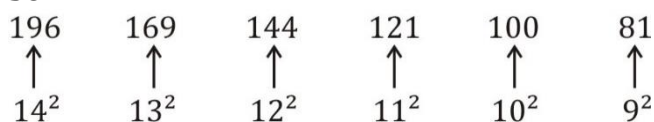
S13. Ans.(b)

Sol.



S14. Ans.(b)

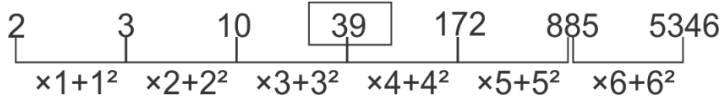
Sol.



S15. Ans.(a)

Sol. Wrong number = 40

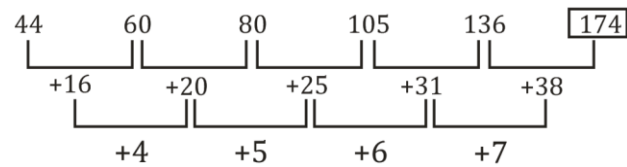
Pattern of series -



So, there should be 39 in place of 40.

S16. Ans.(d)

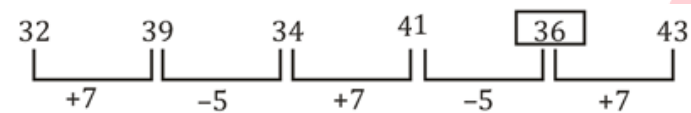
Sol. Pattern of series -



So, missing number is 174.

S17. Ans.(e)

Sol. Pattern of series -



So, missing number is 36.

S18. Ans.(b)

Sol. The wrong no. is 328

$$1 \times 1 + 1 = 2$$

$$2 \times 2 + 1 = 5$$

$$5 \times 3 + 1 = 16$$

$$16 \times 4 + 1 = 65$$

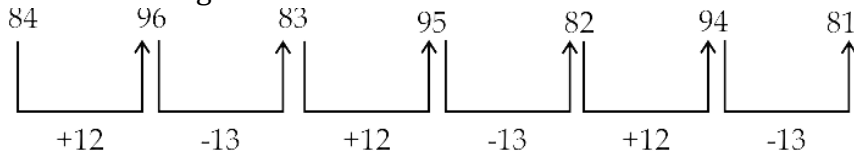
$$65 \times 5 + 1 = 326$$

$$326 \times 6 + 1 = 1957$$

So, there should be 326 instead of 328

S19. Ans.(d)

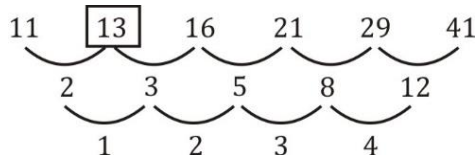
Sol. The wrong no. is 80



So, there should be 82 instead of 80

S20. Ans.(d)

Sol.



S21. Ans.(d)

Sol.

$$\begin{array}{cccccc}
 0 & 6 & 24 & 60 & \boxed{120} & 210 \\
 \uparrow & \uparrow & \uparrow & \uparrow & \uparrow & \uparrow \\
 1^3-1 & 2^3-2 & 3^3-3 & 4^3-4 & 5^3-5 & 6^3-6
 \end{array}$$

S22. Ans.(e)

Sol. Pattern of series -

$$16 + 1.8 = 17.8$$

$$17.8 + 3.6 = 21.4$$

$$21.4 + 7.2 = 28.6$$

$$28.6 + 14.4 = 43$$

$$? = 43 + 28.8 = 71.8$$

S23. Ans.(b)

Sol. Pattern of series -

$$12 \times 0.5 + 1 = 7$$

$$7 \times 1 + 1 = 8$$

$$8 \times 1.5 + 1 = 13$$

$$? = 13 \times 2 + 1 = 27$$

$$27 \times 2.5 + 1 = 68.5$$

S24. Ans.(d)

Sol. Pattern of series -

$$\begin{array}{cccccc}
 15 & 8 & 9 & 15 & 32 & \boxed{? = 82.5} \\
 | & | & | & | & | & | \\
 (\times 0.5 + 0.5) & (\times 1 + 1) & (\times 1.5 + 1.5) & (\times 2 + 2) & (\times 2.5 + 2.5) &
 \end{array}$$

S25. Ans.(e)

Sol. Pattern of series -

$$\begin{array}{cccccc}
 72000 & \boxed{36000} & 12000 & 3000 & 600 & ? = 100 \\
 | & | & | & | & | & | \\
 \div 2 & \div 3 & \div 4 & \div 5 & \div 6 &
 \end{array}$$

S26. Ans.(c)

Sol. Wrong number = 627

Pattern of series -

$$60 + 1^2 = 61$$

$$61 + 5^2 = 86$$

$$86 + 9^2 = 167$$

$$167 + 13^2 = 336$$

$$336 + 17^2 = 625$$

$$625 + 21^2 = 1066$$

S27. Ans.(d)**Sol.** Wrong number = 224

Pattern of series –

$$1 \times 1 + 0.5 = 1.5$$

$$1.5 \times 2 + 0.5 = 3.5$$

$$3.5 \times 3 + 0.5 = 11$$

$$11 \times 4 + 0.5 = 44.5$$

$$44 \times 5 + 0.5 = 223$$

$$223 \times 6 + 0.5 = 1338.5$$

S28. Ans.(e)**Sol.** Wrong number = 223

Pattern of series –

$$56 + 20 = 76$$

$$76 + 23 = 99$$

$$99 + 26 = 125$$

$$125 + 29 = 154$$

$$154 + 32 = 186$$

$$186 + 35 = 221$$

S29. Ans.(c)**Sol.** Pattern of series –

$$9 + 2^2 + 1 = 14$$

$$14 + 3^2 + 1 = 24$$

$$24 + 4^2 + 1 = 41$$

$$41 + 5^2 + 1 = 67$$

$$67 + 6^2 + 1 = 104$$

S30. Ans.(e)**Sol.** Pattern of series –

$$7 \times 0.5 = 3.5$$

$$3.5 \times 1 = 3.5$$

$$3.5 \times 2 = 7$$

$$7 \times 4 = 28$$

$$28 \times 8 = 224$$

S31. Ans.(a)**Sol.** The pattern of the series is –

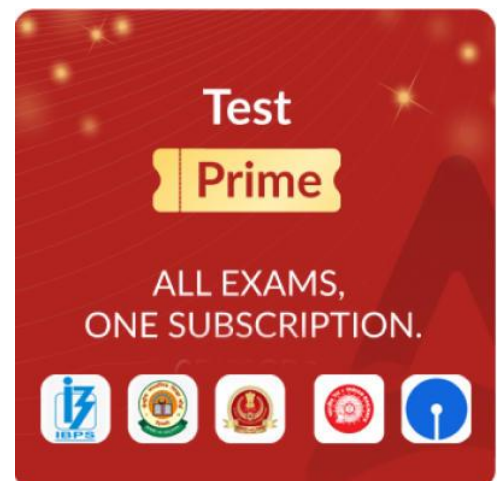
$$45 + 2^2 = 49$$

$$49 - 3^2 = 40$$

$$40 + 5^2 = 65$$


$$65 - 7^2 = 16$$

$$16 + 11^2 = 137$$



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S32. Ans.(b)**Sol.** Pattern of series –

$$50 + 5^2 = 75$$

$$75 + 10^2 = 175$$

$$175 + 15^2 = 400$$

$$400 + 20^2 = 800$$

$$? = 800 + 25^2 = \mathbf{1425}$$

S33. Ans.(e)**Sol.** Pattern of series –

$$8 + 10 = 18$$

$$18 + 20 = 38$$

$$38 + 40 = 78$$

$$? = 78 + 80 = \mathbf{158}$$

$$158 + 160 = 318$$

S34. Ans.(b)**Sol.** Pattern of series –

$$? = 41 + 5 = \mathbf{46}$$

$$46 + 7 = 53$$

$$53 + 11 = 64$$

$$64 + 13 = 77$$

$$77 + 17 = 94$$

S35. Ans.(c)**Sol.** Here the pattern is:

$$1+1 = 2$$

$$2+3 = 5$$

$$5+5 = 10$$

$$10+7 = 17$$

$$? = 17+9 = \mathbf{26}$$

S36. Ans.(a)**Sol.** Missing number = 132

Pattern of series –

$$8 + 4 = 12$$

$$12 + 8 = 20$$

$$20 + 16 = 36$$

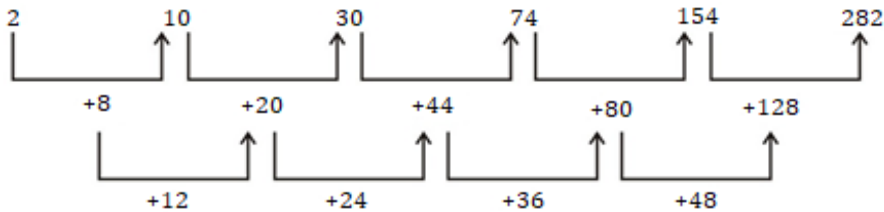
$$36 + 32 = 68$$

$$? = 68 + 64 = \mathbf{132}$$

S37. Ans.(d)

Sol. Missing number = 10

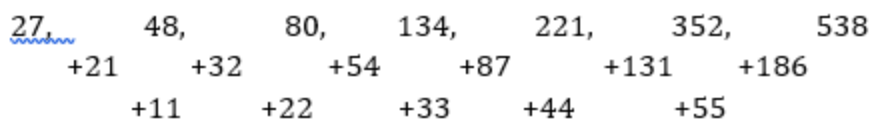
Pattern of series -



S38. Ans.(b)

Sol. Wrong number = 355

Pattern of series -



S39. Ans.(c)

Sol. Wrong number = 15

Pattern of series -

$$146 - 1^3 = 145$$

$$145 + 2^2 = 149$$

$$149 - 3^3 = 122$$

$$122 + 4^2 = 138$$

$$138 - 5^3 = 13$$

$$13 + 6^2 = 49$$

S40. Ans.(c)

Sol. Wrong number = 21.8

Pattern of series -

$$1.7 + 1.3 = 3.0$$

$$3.0 + 2.6 = 5.6$$

$$5.6 + 3.9 = 9.5$$

$$9.5 + 5.2 = 14.7$$

$$14.7 + 6.5 = 21.2$$

$$21.2 + 7.8 = 29$$

S41. Ans.(e)

Sol. Wrong number = 1633

Here the pattern is:

$$49 \times 2 + 2 = 100$$

$$100 \times 2 + 2 = 202$$

$$202 \times 2 + 2 = 406$$

$$406 \times 2 + 2 = 814$$

$$814 \times 2 + 2 = 1630$$

$$1630 \times 2 + 2 = 3262$$

S42. Ans.(a)

Sol. Wrong number = 440

Pattern of series –

$$3 + (2^3 - 1) = 10$$

$$10 + (3^3 - 1) = 36$$

$$36 + (4^3 - 1) = 99$$

$$99 + (5^3 - 1) = 223$$

$$223 + (6^3 - 1) = 438$$

$$438 + (7^3 - 1) = 780$$

So, 438 should come in the place of 440

S43. Ans.(e)

Sol. Wrong number = 9

Pattern of the series:

$$1.5 \times 6 + 1 = \mathbf{10}$$

$$10 \times 5 + 1 = 51$$

$$51 \times 4 + 1 = 205$$

$$205 \times 3 + 1 = 616$$

$$616 \times 2 + 1 = 1233$$

$$1233 \times 1 + 1 = 1234$$

S44. Ans.(b)

Sol. Pattern of the series

$$6, \quad \mathbf{0.2}, \quad 60, \quad 2, \quad 600, \quad 20, \quad 6000$$

$\div 30 \quad \times 300 \quad \div 30 \quad \times 300 \quad \div 30 \quad \times 300$

S45. Ans.(a)

Sol. Pattern of series –

$$7^2 = 49$$

$$11^2 = 121$$

$$13^2 = 169$$

$$17^2 = 289$$

$$? = 19^2 = \mathbf{361}$$

$$23^2 = 529$$

S46. Ans.(a)

Sol. Pattern of series –

$$4.8 + 1.3 = 6.1$$

$$6.1 + 1.5 = 7.6$$

$$7.6 + 1.7 = 9.3$$

$$9.3 + 1.9 = 11.2$$

$$? = 11.2 + 2.1 = \mathbf{13.3}$$

S47. Ans.(a)

Sol. Wrong number = 2306

Pattern of series -

Addition of square of consecutive prime numbers

$$400 + 17^2 = 689$$

$$689 + 19^2 = 1050$$

$$1050 + 23^2 = 1579$$

$$1579 + 29^2 = \mathbf{2420}$$

$$2420 + 31^2 = 3381$$

$$3381 + 37^2 = 4750$$

S48. Ans.(d)

Sol. Pattern of the series:

53, 75, 99, 125, 153, 183
 +22 +24 +26 +28 +30

S49. Ans.(b)

Sol. Wrong term = 4910

Pattern of series -

4320, 4337, 4463, 4500, 4844, ~~4909~~, 5639
 +17 +126 +37 +344 +65 +730
 ↑ ↑ ↑ ↑ ↑ ↑
 (4²+1) (5³+1) (6²+1) (7³+1) (8²+1) (9³+1)

S50. Ans.(e)

Sol. Wrong term = 364

Pattern of series -

3, 4, 8, 24, 88, 344, 1368
 +1 +4 +16 +64 +256 +1024
 ↑ ↑ ↑ ↑ ↑ ↑
 2⁰ 2² 2⁴ 2⁶ 2⁸ 2¹⁰

S51. Ans.(d)

Sol. Wrong term = 2012

Pattern of series -

1736, 1751, 1776, 1821, 1896, 2011, 2176
 +15 +25 +45 +75 +115 +165
 +10 +20 +30 +40 +50

S52. Ans.(a)

Sol. Pattern of series -

10, 21, 8, 25, 6, 29
 +11 -13 +17 -19 +23

S53. Ans.(a)

Sol. $100 + 1! = 101$

$$101 + 2! = 103$$

$$103 + 3! = 109$$

$$109 + 4! = 133$$

$$133 + 5! = 253$$

S54. Ans.(a)

Sol. Pattern of the series

$$12600 \times \frac{1}{7} = 1800$$

$$1800 \times \frac{1}{6} = 300$$

$$300 \times \frac{1}{5} = 60$$

$$60 \times \frac{1}{4} = 15$$

$$15 \times \frac{1}{3} = 5$$

S55. Ans.(e)

Sol. $21 \times 2 + 2 = 44$

$$44 \times 3 + 3 = 135$$

$$135 \times 4 + 4 = 544$$

$$544 \times 5 + 5 = 2725$$

$$2725 \times 6 + 6 = 16356$$

S56. Ans.(b)

Sol. Wrong number = 121

The pattern of the series:

$$8, \quad 27, \quad 125, \quad 343, \quad \mathbf{1331}, \quad 2197, \quad 4913$$

$$2^3 \quad 3^3 \quad 5^3 \quad 7^3 \quad 11^3 \quad 13^3 \quad 17^3$$

S57. Ans.(d)

Sol. Pattern of series –

$$22 + 2.5 = 24.5$$

$$24.5 + 5 = 29.5$$

$$29.5 + 7.5 = 37$$

$$37 + 10 = 47$$

$$47 + 12.5 = \mathbf{59.5}$$

S58. Ans.(a)

Sol. Wrong number = 38

The pattern of the series:

$$\mathbf{35}, \quad 35, \quad 70, \quad 280, \quad 1680, \quad 13440, \quad 134400$$

$$\times 1 \quad \times 2 \quad \times 4 \quad \times 6 \quad \times 8 \quad \times 10$$

S59. Ans.(a)

Sol. Pattern of series –

$$100 \times 2 = 200$$

$$200 \times 2.4 = 480$$

$$480 \times 2.8 = 1344$$

$$1344 \times 3.2 = 4300.8$$

$$4300.8 \times 3.6 = 15482.88$$

$$15482.88 \times 4 = 61931.52$$

S60. Ans.(b)

Sol. Pattern of series –

$$308 \times 2 - 100 = 516$$

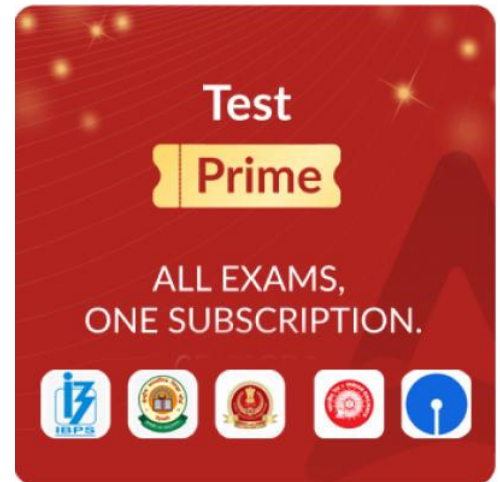
$$516 \times 2 - 100 = 932$$

$$932 \times 2 - 100 = 1764$$

$$1764 \times 2 - 100 = 3428$$

$$3428 \times 2 - 100 = 6756$$

$$6756 \times 2 - 100 = 13412$$



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