

BOOST UP PDFS | Quantitative Aptitude | Number Series (Moderate Level Part-1)

Recommend for SBI PO, SBI Clerk, IBPS RRB/PO/Clerk Exams

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Directions (1-10): What will come in place of question mark (?) in the following questions?

1. 2, 4, 11, 37, 153, ?

- a. 771
- b. 887
- c. 556
- d. 654
- e. None of these

2. 6, 6, 8, 14, 26, ?

- a. 75
- b. 46
- c. 34
- d. 29
- e. None of these

3. 3, 5, 13, 43, 177, ?

- a. 853
- b. 846
- c. 891
- d. 834
- e. None of these

4. 3, 9, 22, 42, 69, ?

- a. 100
- b. 101

c. 102

d. 103

e. None of these

5. 5, 5, 7, 13, 25, ?

- a. 45
- b. 67
- c. 78
- d. 43

e. None of these

6. 5, 11, 22, 43, 79, ?

- a. 145
- b. 135
- c. 125
- d. 155

e. None of these

7. 1, 3, 9, 31, 129, ?

- a. 734
- b. 378
- c. 651
- d. 782

e. None of these

8. 2, 4, 11, 37, 153, ?

- a. 483

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- b. 347
c. 739
d. 771
e. None of these
9. 4, 3, 4.5, 8.75, 20, ?

- a. 53
b. 73
c. 93
d. 75
e. None of these
10. 6, 4, 5, 11, 39, ?

- a. 155
b. 189
c. 149
d. 235
e. None of these

Directions (11-20): What will come in place of question mark (?) in the following questions?

11. 8, 6, 9, 23, 87 ?

- a. 143
b. 289
c. 343
d. 987
e. None of these

12. 3, 4, 10, 33, 136, ?

- a. 844
b. 782
c. 983

- d. 685
e. None of these

13. 9, 5, 6, 10.5, 23 ?

- a. 50
b. 65
c. 70
d. 55
e. 60

14. 2, 17, 89, 359, 1079, ?

- a. 2143
b. 2152
c. 2169
d. 2159
e. 2148

15. 7, 4.5, 5.5, 12, 49, ?

- a. 393
b. 351
c. 362
d. 375
e. 364

16. 1, 20, 58, 134, 286, ?

- a. 600
b. 590
c. 580
d. 570
e. 560

17. 4, 5, 6, 14, ?, 100.5

- a. 32.5
b. 47.5

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c. 67.5

d. 37.5

e. 27.5

18. 2, 2, 7, ?, 87, 342

a. 21

b. 26

c. 23

d. 24

e. 22

19. 2, 5, 17, 50, 122, ?

a. 252

b. 258

c. 257

d. 225

e. 242

20. 2, 9, 39, 161, ?, 2613

a. 675

b. 670

c. 665

d. 651

e. 655

Directions (21-30): What will come in place of question mark (?) in the following questions?

21. 5, 6, 10, 33, 128, ?

a. 645

b. 680

c. 650

d. 690

e. 620

22. 1, 2, 6, 17, ?, 157.5

a. 40.5

b. 42.5

c. 49.5

d. 51.5

e. 50.5

23. 2, 2, 12, 36, 104, ?

a. 232

b. 221

c. 223

d. 224

e. 242

24. 6, 8, 12, 42, 160, ?

a. 870

b. 840

c. 850

d. 810

e. 820

25. 8, 9, 15, 32, ?, 250.5

a. 82.5

b. 47.5

c. 62.5

d. 37.5

e. 64.5

26. 2, 4, 7, ?, 87, 344

a. 38

b. 24

c. 56

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d.44

e.62

27. 2, 5, 9, 42, 98, ?

a.233

b.218

c.221

d.225

e.242

28. 4, 6, 8, 30, 112, ?

a.540

b.580

c.550

d.590

e.570

29. 15, 5, 4.5, 5.8, 7.9, ?

a.9.6

b.11.42

c.12.23

d.10.74

e.None of these

30. 211, 90, 171, 122, 147, 138, ?

a.152

b.176

c.139

d.180

e.None of these

Directions (31-40): What will come in place of question mark (?) in the following questions?

31. 37, 54, 88, ?, 207

a.139

b.213

c.193

d.391

e.None of these

32. 23, 40, 64, 96, 137, ?

a. 197

b. 188

c. 183

d. 192

e. 201

33. 53, 58, 75, 112, 177, ?

a. 261

b. 275

c. 278

d. 285

e. 317

34. ?, 32, 51, 74, 103, 134

a. 7

b. 15

c. 13

d. 17

e. 19

35. 95, 103, 96, 104, ?

a. 102

b. 98

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- c. 100
- d. 97
- e. 95

36. 13, 27, 55, 97, 153, ?

- a. 243
- b. 265
- c. 215
- d. 223
- e. 232

37. 15, 30, 10, 40, 8, ?

- a. 48
- b. 52
- c. 64
- d. 72
- e. 32

38. 2, 6, 21, 88, 445, ?

- a. 2667
- b. 2676
- c. 2230
- d. 3122
- e. 3568

39. 1028, 1012, 980, 932, 868, ?

- a. 748
- b. 698
- c. 798
- d. 788
- e. 688

40. 3, 4, 10, 33, 136, ?

- a. 685
- b. 695
- c. 775
- d. 705
- e. 675

Directions (41-50): What will come in place of question mark (?) in the following questions?

41. 677, 785, 901, 1025, ? , 1297

- a. 1162
- b. 1157
- c. 1297
- d. 1264
- e. 1257

42. 5, 7, 17, 55, 225, 1131, ?

- a. 6973
- b. 6379
- c. 7639
- d. 7369
- e. 6793

43. 25, 30, 49, 56, 81, 90, ?, 132

- a. 90
- b. 72
- c. 99
- d. 121
- e. 132

44. 6, 19, 71, 279, 1111, ?

- a. 4439
- b. 3439

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c. 3454

d. 5439

e. 4349

45. 16, 17, 36, 111, 448, ?

a. 2240

b. 2245

c. 2694

d. 1796

e. 1865

46. 7, 12, 19, 30, 47, ?

a. 65

b. 79

c. 78

d. 67

e. 72

47. 24, 14, 16, 26, 54, ?

a. 132

b. 129

c. 137

d. 117

e. 144

48. 23, 25, 79, 401, 2815, ?

a. 25345

b. 25340

c. 25350

d. 25445

e. 25355

49. 20, 6, 4.8, 5.92, 7.96, 10.776

a. 5.92

b. 7.96

c. 4.8

d. 10.776

e. 6

50. 14, ?, 20, 12, 26, 15

a. 11

b. 7

c. 9

d. 13

e. None

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Answer key with Solution

Solution (1-10)

1. A

$$(2 \times 1) + 2 = 4$$

$$(4 \times 2) + 3 = 11$$

$$(11 \times 3) + 4 = 37$$

$$(37 \times 4) + 5 = 153$$

$$(153 \times 5) + 6 = 771$$

Answer is- 771

2. B

$$6 + 0 (0 + 2) = 6$$

$$6 + 2 (2 + 4) = 8$$

$$8 + 6 (6 + 6) = 14$$

$$14 + 12 (12 + 8) = 26$$

$$26 + 20 (20 + 10) = 46$$

3. C

$$3 \times 1 + 2 = 5$$

$$5 \times 2 + 3 = 13$$

$$13 \times 3 + 4 = 43$$

$$43 \times 4 + 5 = 177$$

$$177 \times 5 + 6 = 891$$

4. D

$$3 + 6 = 9$$

$$9 + 13 (6 + 7) = 22$$

$$22 + 20 (13 + 7) = 42$$

$$42 + 27 (20 + 7) = 69$$

$$69 + 34 (27 + 7) = 103 \text{ or (difference of difference)}$$

5. A

$$5 + 0(0 + 2) = 5$$

$$5 + 2(2 + 4) = 7$$

$$7 + 6(6 + 6) = 13$$

$$13 + 12(12 + 8) = 25$$

$$25 + 20(20 + 10) = 45$$

6. B

Triple difference of 5, 10, 15, 20,

7. C

$$1 \times 1 + 2, 3 \times 2 + 3, 9 \times 3 + 4, 31 \times 4 + 5, 129 \times 5 + 6$$

Answer- 651

8. D

$$2 \times 1 + 2 = 4$$

$$4 \times 2 + 3 = 11$$

$$11 \times 3 + 4 = 37$$

$$37 \times 4 + 5 = 153$$

$$153 \times 5 + 6 = 771$$

9. A

$$4 * 0.5 + 1 = 3$$

$$3 * 1 + 1.5 = 4.5$$

$$4.5 * 1.5 + 2 = 8.75$$

$$8.75 * 2 + 2.5 = 20$$

$$20 * 2.5 + 3 = 53$$

Answer- 53

10. B

$$6 \times 1 - 2 = 4, 4 \times 2 - 3 = 5, 5 \times 3 - 4 = 11, 11 \times 4 - 5 = 39, 39 \times 5 - 6 = 189$$

Solution (11-20)

11. C

Difference $x_1 - 2, x_2 - 3, x_3 - 4 \dots$

12. D

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$$3 \times 1 + 1, 4 \times 2 + 2, 10 \times 3 + 3, 33 \times 4 + 4, 136 \times 5 + 5$$

Answer is- 685

13. A

$$9 * 0.5 + 0.5 = 5$$

$$5 * 1 + 1 = 6$$

$$6 * 1.5 + 1.5 = 10.5$$

$$10.5 * 2 + 2 = 23$$

$$23 * 2.5 + 2.5 = 60$$

14. B

$$2 * 6 + 5 = 17$$

$$17 * 5 + 4 = 89$$

$$89 * 4 + 3 = 359$$

$$359 * 3 + 2 = 1079$$

$$1079 * 2 + 1 = 2159$$

15. C

$$7 \times 0.5 + 1 = 4.5.$$

$$4.5 \times 1 + 1 = 5.5.$$

$$5.5 \times 2 + 1 = 12.$$

$$12 \times 4 + 1 = 49.$$

$$49 \times 8 + 1 = 393.$$

16. D

$$1 * 2 + 18 = 20$$

$$20 * 2 + 18 = 58$$

$$58 * 2 + 18 = 134$$

$$134 * 2 + 18 = 286$$

17. A

$$4 * 1 + 1 = 5$$

$$5 * 1.5 - 1.5 = 6$$

$$6 * 2 + 2 = 14$$

$$14 * 2.5 - 2.5 = 32.5$$

$$32.5 * 3 + 3 = 100.5$$

18. B

$$2 + 1^2 - 1 = 2$$

$$2 + 2^2 + 1 = 7$$

$$7 + 4^2 - 1 = 22$$

19. C

$$2 + 1^3 + 2 = 5$$

$$5 + 2^3 + 4 = 17$$

$$17 + 3^3 + 6 = 50$$

$$50 + 4^3 + 8 = 122$$

20. D

$$2 * 4 + 1 = 9$$

$$9 * 4 + 3 = 39$$

$$39 * 4 + 5 = 161$$

$$161 * 4 + 7 = 651$$

$$651 * 4 + 9 = 2613$$

Solution (21-30)

21. A

$$5 * 1 + 1 = 6$$

$$6 * 2 - 2 = 10$$

$$10 * 3 + 3 = 33$$

$$33 * 4 - 4 = 128$$

$$128 * 5 + 5 = 645$$

22. B

$$1 * 1 + 1 = 2$$

$$2 * 1.5 + 3 = 6$$

$$6 * 2 + 5 = 17$$

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$$17 * 2.5 + 7 = 49.5$$

$$49.5 * 3 + 9 = 157.5$$

23. C

$$2 + 1^3 - 1 = 2$$

$$2 + 2^3 + 2 = 12$$

$$12 + 3^3 - 3 = 36$$

$$36 + 4^3 + 4 = 104$$

24. D

$$6 * 1 + 2 = 8$$

$$8 * 2 - 4 = 12$$

$$12 * 3 + 6 = 42$$

$$42 * 4 - 8 = 160$$

$$160 * 5 + 10 = 810$$

25. A

$$8 * 1 + 1 = 9$$

$$9 * 1.5 + 1.5 = 15$$

$$15 * 2 + 2 = 32$$

$$32 * 2.5 + 2.5 = 82.5$$

$$82.5 * 3 + 3 = 250.5$$

26. B

$$2 + 1^2 + 1 = 4$$

$$4 + 2^2 - 1 = 7$$

$$7 + 4^2 + 1 = 24$$

$$24 + 8^2 - 1 = 87$$

$$87 + 16^2 + 1 = 344$$

27. C

$$2 + 1^3 + 2 = 5$$

$$5 + 2^3 - 4 = 9$$

$$9 + 3^3 + 6 = 42$$

$$42 + 4^3 - 8 = 98$$

$$98 + 5^3 + 10 = 233$$

28. D

$$4 * 1 + 2 = 6$$

$$6 * 2 - 4 = 8$$

$$8 * 3 + 6 = 30$$

$$30 * 4 - 8 = 112$$

$$112 * 5 + 10 = 570$$

29. A

$$15 * 0.2 + 2 = 5$$

$$5 * 0.3 + 3 = 4.5$$

$$4.5 * 0.4 + 4 = 5.8$$

$$5.8 * 0.5 + 5 = 7.9$$

$$7.9 * 0.6 + 6 = 10.74$$

30. B

$$211 - 11^2 = 90$$

$$90 + 9^2 = 171$$

$$171 - 7^2 = 122$$

$$122 + 5^2 = 147$$

$$147 - 3^2 = 138$$

$$138 + 1^2 = 139$$

Solution (31-40)

31. C

$$37 + 17 = 54$$

$$54 + 2 * 17 = 88$$

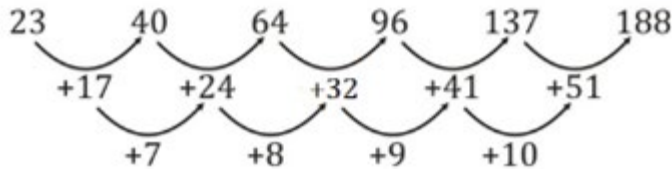
$$88 + 3 * 17 = 139$$

$$139 + 4 * 17 = 207$$

32. D

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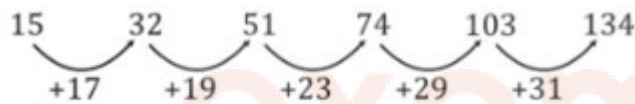
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33. A

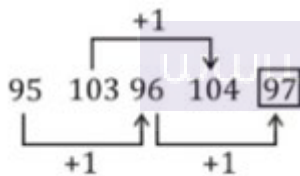
Pattern is $+(2^2+1)$, $+(4^2+1)$, $+(6^2+1)$, $+(8^2+1)$, $+(10^2+1)$
So, $? = 177 + 101 = 278$

34. B



Difference is prime no.

35. C



36. D

Pattern is $+14 \times 1$, $+14 \times 2$, $+14 \times 3$,
 $+14 \times 4$, $+14 \times 5$
 $\therefore ? = 153 + 70$
 $= 223$

37. A

Pattern is $\times 2, \div 3, \times 4, \div 5, \times 6$
 $\therefore ? = 8 \times 6 = 48$

38. B

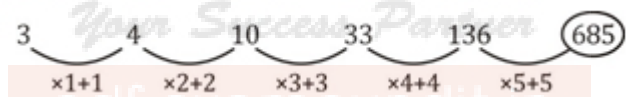
$$\begin{aligned} 2 \times 2 + 2 &= 6 \\ 6 \times 3 + 3 &= 21 \\ 21 \times 4 + 4 &= 88 \\ 88 \times 5 + 5 &= 445 \\ 445 \times 6 + 6 &= 2676 \end{aligned}$$

39. C

Pattern is:

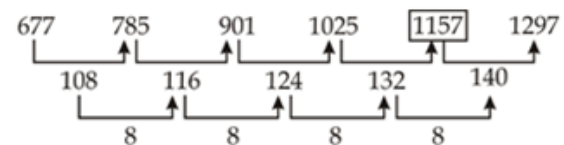
$$\begin{aligned} 1028 - 1 \times 16 &= 1012 \\ 1012 - 2 \times 16 &= 980 \\ 980 - 3 \times 16 &= 932 \\ 932 - 4 \times 16 &= 868 \\ 868 - 5 \times 16 &= 788 \end{aligned}$$

40. D



Solution (41-50)

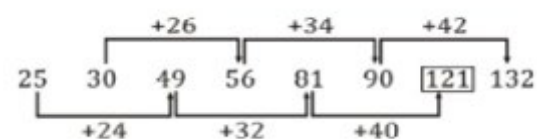
41. A



42. B

Series is as, $\times 1+2$, $\times 2+3$, $\times 3+4$, $\times 4+5$, $\times 5+6$, $\times 6+7$
 $? = 1131 \times 6 + 7 = 6793$

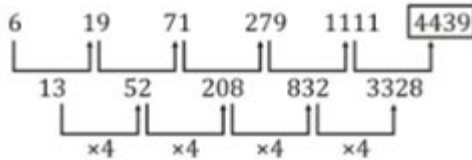
43. C



44. D

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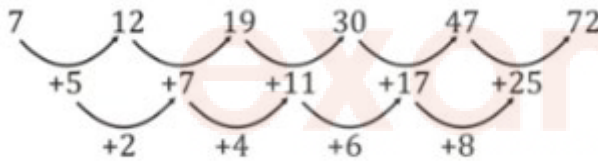
45. A

Pattern is $\times 1 + 1, \times 2 + 2, \times 3 + 3, \times 4 + 4, \times 5 + 5$

$$\therefore ? = 448 \times 5 + 5$$

$$= 2245$$

46. B



47. C

Pattern is

$$24 \times 0.5 + 2 = 14$$

$$14 \times 1 + 2 = 16$$

$$16 \times 1.5 + 2 = 26$$

$$26 \times 2 + 2 = 54$$

$$54 \times 2.5 + 2 = 137$$

48. D

Pattern is

$$23 \times 1 + 2 = 25$$

$$25 \times 3 + 4 = 79$$

$$79 \times 5 + 6 = 401$$

$$401 \times 7 + 8 = 2815$$

$$2815 \times 9 + 10 = 25345$$

49. A

$$20 \times 0.2 + 2 = 5$$

$$6 \times 0.3 + 3 = 4.8$$

$$4.8 \times 0.4 + 4 = 5.92$$

$$5.92 \times 0.5 + 5 = 7.96$$

$$7.96 \times 0.6 + 6 = 10.776$$

50. B

$$14/2 + 2 = 9$$

$$9 \times 2 + 2 = 20$$

$$20/2 + 2 = 12$$

$$12 \times 2 + 2 = 26$$

$$26/2 + 2 = 15$$