



TOP 50 Number Series Questions for Clerk Mains Exams



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Directions (1 - 7): What value should come in place of question mark (?) in the following number series?

1) 12, 44, 108, 236, 492, ?

- a) 1004
- b) 988
- c) 1236
- d) 1056
- e) None of these

2) 855, 288, 99, 36, 15, ?

- a) 12
- b) 3
- c) 6
- d) 8
- e) None of these

3) 9, 10, 22, 69, ?, 1405, 8436

- a) 280
- b) 320
- c) 340
- d) 360
- e) 270

4) 3, 6, 21, ?, 1179, 11730, 128953

- a) 146
- b) 140
- c) 136
- d) 152
- e) 240

5) 8, 5, 7, 13.5, ?, 82.5, 253.5, 894.25

- a) 31
- b) 35
- c) 40
- d) 42
- e) 30.5

6) 2, 8, 72, 288, ?, 10368, 93312

- a) 2529
- b) 2592
- c) 2852
- d) 2272
- e) 2429

7) 540, ?, 90, 22.5, 4.5, 0.75

- a) 320
- b) 360
- c) 290
- d) 270
- e) 240

Direction (8 - 18): Find the wrong term in the following number series

8) 46, 52, 60, 70, 82, 95

- a) 46
- b) 52
- c) 60
- d) 70
- e) 95

9) 2, 8, 25, 90, 372, 1870, 11226

- a) 25
- b) 372
- c) 11226
- d) 90
- e) None of these

10) 7, 8, 18, 56, 232, 1165, 6996

- a) 232
- b) 1165
- c) 56
- d) 18
- e) None of these

11) 1, 13, 36, 85, 181, 373, 757

- a) 36
- b) 373
- c) 757
- d) 85
- e) None of these

12) 9216, 2304, 576, 144, 36, 12

- a) 576
- b) 12
- c) 9216
- d) 144
- e) None of these

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13) 11, 22, 66, 130, 396, 792, 2376

- a) 396
- b) 130
- c) 2376
- d) 792
- e) None of these

14) 675, 627, 580, 542, 509, 485, 472

- a) 580
- b) 509
- c) 627
- d) 485
- e) None of these

15) 13, 20, 48, 112, 237, 453, 796

- a) 48
- b) 453
- c) 20
- d) 237
- e) None of these

16) 89, 96, 108, 120, 139, 154, 166

- a) 120
- b) 139
- c) 96
- d) 166
- e) None of these

17) 7, 28, 98, 294, 735, 1470, 2205, 2200

- a) 2200
- b) 98
- c) 735
- d) 2205
- e) None of these

18) 10080, 1680, 335, 84, 28, 14

- a) 84
- b) 335
- c) 1680
- d) 14
- e) None of these



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Directions (19 - 23): The questions below are based on the given Series-I. The series-I satisfy a certain

pattern, follow the same pattern in Series-II and answer the questions given below.

19)

| | | | | | |
|----|----|----|-----|-----|-----|
| 12 | 27 | 59 | 125 | 259 | 529 |
| 23 | - | - | - | (?) | - |

- a) 427
- b) 463
- c) 435
- d) 297
- e) 623

20)

| | | | | | |
|------|-----|-----|----|----|-----|
| 2187 | 729 | 243 | 81 | 27 | 9 |
| - | - | 405 | - | - | (?) |

- a) 18
- b) 15
- c) 16
- d) 12
- e) 21

21)

| | | | | | |
|-----|------|-----|------|-----|-----|
| 126 | 1457 | 728 | 1071 | 946 | 973 |
| 23 | - | - | - | - | (?) |

- a) 961
- b) 689
- c) 790
- d) 870
- e) 890

22)

| | | | | | |
|------|------|------|------|------|------|
| 1752 | 1785 | 1823 | 1865 | 1910 | 1957 |
| (?) | - | - | 669 | 714 | 761 |

- a) 556
- b) 456
- c) 486
- d) 526
- e) 429

23)

| | | | | |
|----|-----|-----|-----|-------|
| 12 | 25 | 127 | 887 | 7439 |
| - | (?) | - | - | 23951 |

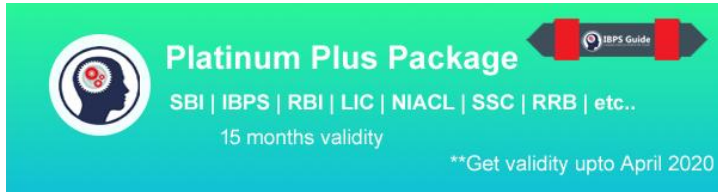
- a) 121
- b) 119
- c) 113

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- d) 117
e) 111



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Directions (24 - 28): The questions below are based on the given Series-I. The series-I satisfy a certain pattern, follow the same pattern in Series-II and answer the questions given below.

24)

| | | | | | | |
|----|----|-----|-----|-----|-----|-----|
| 85 | 97 | 117 | 147 | 189 | 245 | 317 |
| 12 | - | - | - | - | - | ? |

- a) 145
b) 278
c) 244
d) 176
e) 132

25)

| | | | | | |
|---|----|----|-----|------|-------|
| 7 | 15 | 63 | 383 | 3071 | 30719 |
| - | ? | - | - | - | 65279 |

- a) 33
b) 21
c) 39
d) 27
e) 42

26)

| | | | | | |
|----|----|----|-----|-----|------|
| 64 | 33 | 41 | 109 | 500 | 4125 |
| - | - | ? | - | - | 6429 |

- a) 56
b) 62
c) 84
d) 77
e) 68

27)

| | | | | | |
|------|------|-----|-----|----|----|
| 3402 | 1377 | 540 | 207 | 78 | 29 |
| ? | - | - | - | 99 | - |

- a) 4852

- b) 5103
c) 5376
d) 4527
e) 3964

28)

| | | | | | |
|-----|-----|-----|------|------|------|
| 721 | 793 | 914 | 1071 | 1253 | 1451 |
| 356 | 441 | - | - | - | ? |

- a) 1258
b) 1363
c) 1151
d) 1076
e) 995



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Directions (29 - 41): The questions below are based on the given Series-I. The series-I satisfy a certain pattern, follow the same pattern in Series-II and answer the questions given below.

29)

I. 3256, 3260, 3251, 3276, 3227, 3348

II. 1089 1301. If 1301 is the n^{th} term, then find the value of n ?

- a) 5
b) 6
c) 7
d) 9
e) 8

30)

I. 184, 356, 969, 2207, 4286, 7454

II. 42, 211 4132. If 4132 is the n^{th} term, what value should come in the place of $(n+1)^{\text{th}}$ term?

- a) 2207
b) 8117
c) 9207
d) 7297
e) 7587

31)

I. 179, 195, 212, 248, 359, 807

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II. 192, 211..... 922. If 922 is the n^{th} term, then find the value of n ?

- a) 11
- b) 10
- c) 9
- d) 7
- e) 6

32)

I. 64, 33, 34, 52, 105, 263.5

II. 72 881.5. If 881.5 is the n^{th} term, then what value should come in the place of $(n-2)^{\text{th}}$ term?

- a) 117
- b) 38
- c) 58
- d) 293.5
- e) 457.5

33)

I. 722, 850, 994, 1202, 1538, 2386

II. 84, 256, 446 4230. If 4230 is the n^{th} term, find the value of $(n+1)$?

- a) 11
- b) 10
- c) 9
- d) 8
- e) 7

34)

I. 8, 4, 6, 15, 52.5

II. 12 78.75. If 78.75 is the n^{th} term, then find the value of n ?

- a) 6
- b) 4
- c) 5
- d) 7
- e) 8

35)

I. 29, 59, 178, 891, 6238

II. 46 9808. If 9808 is the n^{th} term, then find the value of n ?

- a) 6
- b) 5

- c) 7
- d) 8
- e) 9

36)

I. 45, 92, 372, 2984, 47760

II. 2.5 135712. If 135712 is the n^{th} term, then find the value of n ?

- a) 9
- b) 8
- c) 7
- d) 6
- e) 11

37)

I. 11, 12, 26, 108, 872, 13968

II. 4 217632. If 217632 is the n^{th} term, then what value should come in the place of $(n-1)^{\text{th}}$ term?

- a) 5016
- b) 4820
- c) 2560
- d) 4520
- e) 6800

38)

I. 1024, 1267, 1348, 1510, 1564, 1672, 1708

II. 961 1717. If 1717 is n^{th} term, then what value should come in the place of $(n - 2)^{\text{th}}$ term?

- a) 1339
- b) 1559
- c) 1609
- d) 1753
- e) 1497

39) I) 3, 18, 136, 945, 5664, 28315

II) 9.....3969. If 3969 is the n^{th} term, then find the value of n ?

- a) 3rd term
- b) 4th term
- c) 5th term



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- d) 6th term
e) None of these

40) I) 8, 8, 64, 1728, 110592

II) 2.....432. If 432 is the nth term, then find the value of n?

- a) 6th term
b) 7th term
c) 5th term
d) 4th term
e) None of these

41) I) 5, 31, 157, 631, 1897, 3799

II) 1.....925. If 925 is the nth term find the value of n

- a) 6th term
b) 7th term
c) 4th term
d) 8th term
e) None of these

Directions (42 – 45): The questions below are based on the given Series-I. The series-I satisfy a certain pattern, follow the same pattern in Series-II and find the wrong number in the series –II.

42) I. 198, 210, 234, 282, 378, 570

II. 248, 260, 284, 332, 428, 618

- a) 332
b) 428
c) 284
d) 618
e) 260

43) I. 2, 6, 28, 174, 1400, 14010

II. 9, 20, 84, 510, 4088, 40880

- a) 4088
b) 20
c) 40880
d) 84
e) 510

44) I. 209, 332, 505, 778, 1201, 1824

II. 121, 230, 389, 647, 1057, 1666

- a) 230
b) 647
c) 389
d) 1057
e) 1666



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45) I. 88, 44, 44, 66, 132, 330, 990

II. 96, 48, 48, 72, 144, 360, 1008

- a) 48
b) 72
c) 144
d) 360
e) 1008

Directions (46 -50): A number is bolded in the series I, II and III. Find the wrong series which does not satisfies the given number and choose the options accordingly.

46)

I. 12, **96**, 672, 4032, 20160, 80640

II. -7, 11, 32, 59, **96**, 143

III. 72, **96**, 122, 152, 198, 372, 2594

- a) Only III
b) Only II
c) Only I
d) Both I and II
e) Both II and III

47)

I. 79, 200, 369, 594, 883, **1244**

II. 1365, 1509, 1313, 1569, **1244**, 1645

III. 3171, 3046, 2830, 2487, 1975, **1244**

- a) Both I and II
b) Only I
c) Only III
d) Both II and III
e) None

48)

I. 24, 25, **54**, 159, 640, 3205

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II. 12, 26, **54**, 110, 222, 446

III. 12, 13, 28, 29, **54**, 61, 124, 125

- a) Only II
- b) Only III
- c) Both I and III
- d) Only I
- e) None

49)

I. 64, 33, 34, 52, 105, **264**

II. 32, 16, 24, 60, **212**, 945

III. 128, 65, 68, 141, 571, **4576**

- a) None

b) Only I

c) Only III

d) Only II

e) All the three

50)

I. 9, 19, 59, 239, 1199, **7200**

II. 78, 156, 468, **2340**, 16380

III. 72, 77, 87, 102, 122, **145**

a) Both II and III

b) Only I

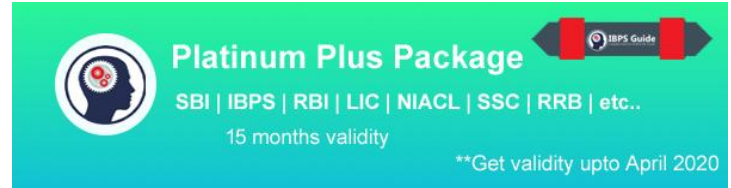
c) Only III

d) Both I and III

e) All the three



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Answers with Explanation

1) Answer: a)

$$12+32=44$$

$$44+64=108$$

$$108+128=236$$

$$236+256=492$$

$$492+512=1004$$

2) Answer: d)

$$855 \div 3 + 3 = 288$$

$$288 \div 3 + 3 = 99$$

$$99 \div 3 + 3 = 36$$

$$36 \div 3 + 3 = 15$$

$$15 \div 3 + 3 = 8$$

3) Answer: a)

$$9 * 1 + 1 = 10$$

$$10 * 2 + 2 = 22$$

$$22 * 3 + 3 = 69$$

$$69 * 4 + 4 = 280$$

$$280 * 5 + 5 = 1405$$

$$1405 * 6 + 6 = 8436$$

4) Answer: c)

$$(3-2) * 6 = 6$$

$$(6-3) * 7 = 21$$

$$(21-4) * 8 = 136$$

$$(136-5) * 9 = 1179$$

$$(1179-6) * 10 = 11730$$

$$(11730-7) * 11 = 128953$$

5) Answer: a)

$$8 * 0.5 + 1 = 5$$

$$5 * 1 + 2 = 7$$

$$7 * 1.5 + 3 = 13.5$$

$$13.5 * 2 + 4 = 31$$

$$31 * 2.5 + 5 = 82.5$$

$$82.5 * 3 + 6 = 253.5$$

$$253.5 * 3.5 + 7 = 894.25$$

6) Answer: b)

$$2 * (2 * 2) = 8$$

$$8 * (3 * 3) = 72$$

$$72 * (2 * 2) = 288$$

$$288 * (3 * 3) = 2592$$

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$$2592*(2*2)=10368$$

$$10368*(3*3)=93312$$

7) Answer: d)

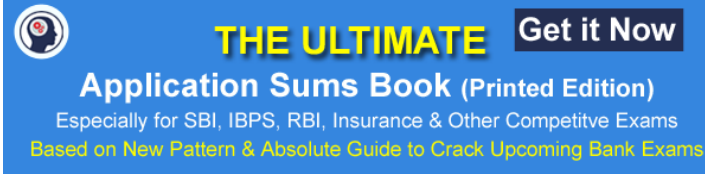
$$540/2=270$$

$$270/3=90$$

$$90/4=22.5$$

$$22.5/5=4.5$$

$$4.5/6=0.75$$



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8) Answer: e)

The pattern of the series is

| | | | |
|----|-----------|----|----|
| 46 | 52 | 60 | 70 |
| 82 | 96 | | |
| | 6 | 8 | 10 |
| 14 | | | 12 |

Wrong number is 95

9) Answer: a)

$$(2+6)*1=8$$

$$(8+5)*2=26$$

$$(26+4)*3=90$$

$$(90+3)*4=372$$

$$(372+2)*5=1870$$

$$(1870+1)*6=11226$$

Wrong number is 25

10) Answer: c)

$$7*1+1=8$$

$$8*2+2=18$$

$$18*3+3=57$$

$$57*4+4=232$$

$$232*5+5=1165$$

$$1165*6+6=6996$$

Wrong number is 56

11) Answer: a)

$$1+12=13$$

$$13+24=37$$

$$37+48=85$$

$$85+96=181$$

$$181+192=373$$

$$373+384=757$$

Wrong number is 37

12) Answer: b)

$$9216/4=2304$$

$$2304/4=576$$

$$576/4=144$$

$$144/4=36$$

$$36/4=9$$

Wrong number is 12

13) Answer: b)

$$11*2=22$$

$$22*3=66$$

$$66*2=132$$

$$132*3=396$$

$$396*2=792$$

$$792*3=2376$$

Wrong number is 130

14) Answer: a)

$$675-6*8=627$$

$$627-5*9=582$$

$$582-4*10=542$$

$$542-3*11=509$$

$$509-2*12=485$$

$$485-1*13=472$$

Wrong number is 580

15) Answer: c)

$$13+2^3=21$$

$$21+3^3=48$$

$$48+4^3=112$$

$$112+5^3=237$$

$$237+6^3=453$$

Wrong number is 20

16) Answer: a)

$$89 + (7*1) = 96$$

$$96 + (6*2) = 108$$

$$108 + (5*3) = 123$$

$$123 + (4*4) = 139$$

$$139 + (3*5) = 154$$

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$154 + (2*6) = 166$

Wrong number is 120

17) Answer: a)

$7*4=28$

$28*3.5=98$

$98*3=294$

$294*2.5=735$

$735*2=1470$

$1470*1.5=2205$

$2205*1=2205$

Wrong number is 2200

18) Answer: b)

$10080 \div 6 = 1680$

$1680 \div 5 = 336$

$336 \div 4 = 84$

$84 \div 3 = 28$

$28 \div 2 = 14$

Wrong number is 335

19) Answer: c)

Series I pattern:

$12*2 + 3 = 27$

$27*2 + 5 = 59$

$59*2 + 7 = 125$

$125*2 + 9 = 259$

$259*2 + 11 = 529$

Series II pattern:

$23*2 + 3 = 49$

$49*2 + 5 = 103$

$103*2 + 7 = 213$

$213*2 + 9 = 435$

$435*2 + 11 = 881$

The answer is, 435

20) Answer: b)

Series I pattern:

$2187 \div 3 = 729$

$729 \div 3 = 243$

$243 \div 3 = 81$

$81 \div 3 = 27$

$27 \div 3 = 9$

Series II pattern:

$3645 \div 3 = 1215$

$1215 \div 3 = 405$

$405 \div 3 = 135$

$135 \div 3 = 45$

$45 \div 3 = 15$

The answer is, 15



21) Answer: d)

Series I pattern:

$126 + 11^3 = 1457$

$1457 - 9^3 = 728$

$728 + 7^3 = 1071$

$1071 - 5^3 = 946$

$946 + 3^3 = 973$

Series II pattern:

$23 + 11^3 = 1354$

$1354 - 9^3 = 625$

$625 + 7^3 = 968$

$968 - 5^3 = 843$

$843 + 3^3 = 870$

The answer is, 870

22) Answer: a)

Series I pattern:

| | | | | | |
|------|------|------|------|------|------|
| 1752 | 1785 | 1823 | 1865 | 1910 | 1957 |
| | 33 | 38 | 42 | 45 | 47 |
| | | 5 | 4 | 3 | 2 |

Series II pattern:

| | | | | | |
|-----|-----|-----|-----|-----|-----|
| 556 | 589 | 627 | 669 | 714 | 761 |
| | 33 | 38 | 42 | 45 | 47 |
| | | 5 | 4 | 3 | 2 |

The answer is, 556

23) Answer: e)

Series I pattern:

$12*2 + 1^3 = 25$

$25*4 + 3^3 = 127$

$127*6 + 5^3 = 887$

$887*8 + 7^3 = 7439$

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Series II pattern:

$$55*2 + 1^3 = 111$$

$$111*4 + 3^3 = 471$$

$$471*6 + 5^3 = 2951$$

$$2951*8 + 7^3 = 23951$$

The answer is, 111

24) Answer: c)

Series I pattern:

$$85 + (3*4) = 97$$

$$97 + (4*5) = 117$$

$$117 + (5*6) = 147$$

$$147 + (6*7) = 189$$

$$189 + (7*8) = 245$$

$$245 + (8*9) = 317$$

Series II pattern:

$$12 + (3*4) = 24$$

$$24 + (4*5) = 44$$

$$44 + (5*6) = 74$$

$$74 + (6*7) = 116$$

$$116 + (7*8) = 172$$

$$172 + (8*9) = 244$$

The answer is, 244

25) Answer: a)

Series I pattern:

$$7*2 + 1 = 15$$

$$15*4 + 3 = 63$$

$$63*6 + 5 = 383$$

$$383*8 + 7 = 3071$$

$$3071*10 + 9 = 30719$$

Series II pattern:

$$16*2 + 1 = 33$$

$$33*4 + 3 = 135$$

$$135*6 + 5 = 815$$

$$815*8 + 7 = 6527$$

$$6527*10 + 9 = 65279$$

The answer is, 33

26) Answer: d)

Series I pattern:

$$64*0.5 + 1^3 = 33$$

$$33*1 + 2^3 = 41$$

$$41*2 + 3^3 = 109$$

$$109*4 + 4^3 = 500$$

$$500*8 + 5^3 = 4125$$

Series II pattern:

$$136*0.5 + 1^3 = 69$$

$$69*1 + 2^3 = 77$$

$$77*2 + 3^3 = 181$$

$$181*4 + 4^3 = 788$$

$$788*8 + 5^3 = 6429$$

The answer is, 77

27) Answer: b)

Series I pattern:

$$3402 \div 3 + 3^5 = 1377$$

$$1377 \div 3 + 3^4 = 540$$

$$540 \div 3 + 3^3 = 207$$

$$207 \div 3 + 3^2 = 78$$

$$78 \div 3 + 3^1 = 29$$

Series II pattern:

$$5103 \div 3 + 3^5 = 1944$$


$$1944 \div 3 + 3^4 = 729$$

$$729 \div 3 + 3^3 = 270$$

$$270 \div 3 + 3^2 = 99$$

$$99 \div 3 + 3^1 = 36$$

The answer is, 5103



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28) Answer: c)

Series I pattern:

| | | | | | |
|------|------|------|-------|-------|------|
| 721, | 793, | 914, | 1071, | 1253, | 1451 |
| 72 | 121 | 157 | 182 | 198 | |
| | 49 | 36 | 25 | 16 | |

The difference of difference is, $7^2, 6^2, 5^2, 4^2, \dots$

Series II pattern:

| | | | | | |
|-----|-----|-----|-----|-----|------|
| 356 | 441 | 575 | 745 | 940 | 1151 |
| 85 | 134 | 170 | 195 | 211 | |
| | 49 | 36 | 25 | 16 | |

The difference of difference is, $7^2, 6^2, 5^2, 4^2, \dots$

The answer is, 1151

29) Answer: e)

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Series –I pattern:

3256 is the 1st term
 $3256 + 2^2 = 3260$
 $3260 - 3^2 = 3251$
 $3251 + 5^2 = 3276$
 $3276 - 7^2 = 3227$
 $3227 + 11^2 = 3348 = 6^{\text{th}}$ term

Series –II pattern:

1089 is the 1st term
 $1089 + 2^2 = 1093$
 $1093 - 3^2 = 1084$
 $1084 + 5^2 = 1109$
 $1109 - 7^2 = 1060$
 $1060 + 11^2 = 1181$
 $1181 - 13^2 = 1012$
 $1012 + 17^2 = 1301 = 8^{\text{th}}$ term

30) Answer: d)

Series – I pattern:

184 is the 1st term

| | | | | | |
|-----|--------|------------|------------|------------|------|
| 184 | 356 | 969 | 2207 | 4286 | 7454 |
| | 172 | 613 | 1238 | 2079 | 3168 |
| | 441 | 625 | 841 | 1089 | |
| | 21^2 | $(21+4)^2$ | $(25+4)^2$ | $(29+4)^2$ | |

7454 is the 6th term

Series –II pattern:

42 is the 1st term

| | | | | | |
|----|--------|------------|------------|------------|------|
| 42 | 211 | 821 | 2056 | 4132 | 7297 |
| | 169 | 610 | 1235 | 2076 | 3165 |
| | 441 | 625 | 841 | 1089 | |
| | 21^2 | $(21+4)^2$ | $(25+4)^2$ | $(29+4)^2$ | |

4132 is the 5th term = nth term

7297 is the 6th term = (n+1)th term

31) Answer: e)

Series –I pattern:

179 is the 1st term

| | | | | | |
|-----|-----|-----|-----|-----|-----|
| 179 | 195 | 212 | 248 | 359 | 807 |
| | 16 | 17 | 36 | 111 | 448 |

Pattern of the difference in the above series is:

$16 * 1 + 1 = 17$
 $17 * 2 + 2 = 36$
 $36 * 3 + 3 = 111$
 $111 * 4 + 4 = 448$
 807 is 6th term

Series – II pattern:

192 is the 1st term

| | | | | | |
|-----|-----|-----|-----|-----|-----|
| 192 | 211 | 231 | 273 | 402 | 922 |
| | 19 | 20 | 42 | 129 | 520 |

Pattern of the difference in the above series is:

$19 * 1 + 1 = 20$
 $20 * 2 + 2 = 42$
 $42 * 3 + 3 = 129$
 $129 * 4 + 4 = 520$
 922 is 6th term

32) Answer: a)

Series –I pattern:

64 is the 1st term
 $64 * 0.5 + 1 = 33$
 $33 * 1 + 1 = 34$
 $34 * 1.5 + 1 = 52$
 $52 * 2 + 1 = 105$
 $105 * 2.5 + 1 = 263.5 = 6^{\text{th}}$ term

Series –II pattern:

72 is the 1st term
 $72 * 0.5 + 1 = 37$
 $37 * 1 + 1 = 38$
 $38 * 1.5 + 1 = 58$
 $58 * 2 + 1 = 117 = 5^{\text{th}}$ term = (n-2)th term
 $117 * 2.5 + 1 = 293.5 = 6^{\text{th}}$ term = (n-1)th term
 $293.5 * 3 + 1 = 881.5 = 7^{\text{th}}$ term = nth term

33) Answer: d)

Series – I pattern:

722 is the 1st term

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722 850 994 1202 1538 2386
 128 144 208 336 848
 16 64 128 512

Pattern of the difference of difference in the above series is:

$$16 * 4 = 64$$

$$64 * 2 = 128$$

$$128 * 4 = 512$$

2386 is the 6th term

Series –II pattern:

84 is the 1st term

84 256 446 708 1114 2096 4230
 172 190 262 406 982 2134
 18 72 144 576 1152

Pattern of the difference of difference in the above series is:

$$18 * 4 = 72$$

$$72 * 2 = 144$$

$$144 * 4 = 576$$

$$576 * 2 = 1152$$

4230 is the 7th term = nth term

$$(n + 1) = 7 + 1 = 8$$

34) Answer: c)

Series – I pattern:

8 is the 1st term

$$8 * 0.5 = 4$$

$$4 * 1.5 = 6$$

$$6 * 2.5 = 15$$

$$15 * 3.5 = 52.5$$

52.5 is the 5th term

Series – II pattern:

12 is the 1st term

$$12 * 0.5 = 6$$

$$6 * 1.5 = 9$$

$$9 * 2.5 = 22.5$$

$$22.5 * 3.5 = 78.75 = 5^{\text{th}} \text{ term}$$

35) Answer: b)

Series –I pattern:

29 is the 1st term

$$29 * 2 + 1 = 59$$

$$59 * 3 + 1 = 178$$

$$178 * 5 + 1 = 891$$

$$891 * 7 + 1 = 6238 = 5^{\text{th}} \text{ term}$$

Multiply with prime numbers and add 1 after multiplication

Series –II pattern:

46 is the 1st term

$$46 * 2 + 1 = 93$$

$$93 * 3 + 1 = 280$$

$$280 * 5 + 1 = 1401$$

$$1401 * 7 + 1 = 9808 = 5^{\text{th}} \text{ term}$$

Multiply with prime numbers and add 1 after multiplication



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36) Answer: d)

Series –I pattern:

45 is the 1st term

$$45 * 2 + 2 = 92$$

$$92 * 4 + 4 = 372$$

$$372 * 8 + 8 = 2984$$

$$2984 * 16 + 16 = 47760 = 5^{\text{th}} \text{ term}$$

Series – II pattern:

2.5 is the 1st term

$$2.5 * 2 + 2 = 7$$

$$7 * 4 + 4 = 32$$

$$32 * 8 + 8 = 264$$

$$264 * 16 + 16 = 4240$$

$$4240 * 32 + 32 = 135712 = 6^{\text{th}} \text{ term}$$

37) Answer: e)

Series – I pattern:

11 is the 1st term

$$11 * 2^0 + 2^0 = 12$$

$$12 * 2^1 + 2^1 = 26$$

$$26 * 2^2 + 2^2 = 108$$

$$108 * 2^3 + 2^3 = 872$$

$$872 * 2^4 + 2^4 = 13968 = 6^{\text{th}} \text{ term}$$

Series – II pattern:

4 is the 1st term

$$4 * 2^0 + 2^0 = 5$$

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$$5 * 2^1 + 2^1 = 12$$

$$12 * 2^2 + 2^2 = 52$$

$$52 * 2^3 + 2^3 = 424$$

$$424 * 2^4 + 2^4 = 6800 = (7 - 1)^{\text{th}} \text{ term}$$

$$6800 * 2^5 + 2^5 = 217632 = 7^{\text{th}} \text{ term}$$

38) Answer: c)

Series – I pattern:

1024 is the 1st term

$$1024 + 243 = 1267$$

$$1267 + (243/3) = 1348$$

$$1348 + (81*2) = 1510$$

$$1510 + (162/3) = 1564$$

$$1564 + (54*2) = 1672$$

$$1672 + (108/3) = 1708 = 7^{\text{th}} \text{ term}$$

Series – II pattern:

961 is the 1st term

$$961 + 243 = 1204$$

$$1204 + (243/3) = 1285$$


$$1285 + (81*2) = 1447$$

$$1447 + (162/3) = 1501$$

$$1501 + (54*2) = 1609 = (8-2)^{\text{th}} \text{ term}$$

$$1609 + (108/3) = 1645 = (8-1)^{\text{th}} \text{ term}$$

$$1645 + (36*2) = 1717 = 8^{\text{th}} \text{ term}$$



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39) Answer: b)

Series I pattern:

$$3*9-9=18$$

$$18*8-8=136$$

$$136*7-7=945$$

$$945*6-6=5664$$

$$5664*5-5=28315$$

Series II pattern:

9 is the 1st term.

$$9*9-9=72$$

$$72*8-8=568$$

$$568*7-7=3969$$

3969 is the 4th term

40) Answer: d)

Series I pattern:

$$8*1^3=8$$

$$8*2^3=64$$

$$64*3^3=1728$$

$$1728*4^3=110592$$

Series II pattern:

2 is the 1st term

$$2*1^3=2$$

$$2*2^3=16$$

$$16*3^3=432$$

432 is the 4th term

41) Answer: b)

Series I pattern:

$$5*6+1=31$$

$$31*5+2=157$$

$$157*4+3=631$$

$$631*3+4=1897$$

$$1897*2+5=3799$$

Series II pattern:

1 is the 1st term.

$$1*6+1=7$$

$$7*5+2=37$$

$$37*4+3=151$$

$$151*3+4=457$$

$$457*2+5=919$$

$$919*1+6=925$$

925 is the 7th term.

42) Answer: d)

Series –I pattern:

| | | | | | |
|-----|-----|-----|-----|-----|-----|
| 198 | 210 | 234 | 282 | 378 | 570 |
| | 12 | 24 | 48 | 96 | 192 |

Series –II pattern:

| | | | | | |
|-----|-----|-----|-----|-----|------------|
| 248 | 260 | 284 | 332 | 428 | 620 |
| | 12 | 24 | 48 | 96 | 192 |

The wrong number is, 618

43) Answer: c)

Series –I pattern:

$$2 * 2 + 2 = 6$$

$$6 * 4 + 4 = 28$$

$$28 * 6 + 6 = 174$$

$$174 * 8 + 8 = 1400$$

$$1400 * 10 + 10 = 14010$$

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Series –II pattern:

$$9 * 2 + 2 = 20$$

$$20 * 4 + 4 = 84$$

$$84 * 6 + 6 = 510$$

$$510 * 8 + 8 = 4088$$

$$4088 * 10 + 10 = 40890$$

The wrong number is, 40880

44) Answer: b)

Series –II pattern:

| | | | | | |
|-----|-----|-----|-----|------|------|
| 209 | 332 | 505 | 778 | 1201 | 1824 |
| 123 | 173 | 273 | 423 | 623 | |
| 50 | 100 | 150 | 200 | | |

Series –II pattern:

| | | | | | |
|-----|-----|-----|------------|------|------|
| 121 | 230 | 389 | 648 | 1057 | 1666 |
| 109 | 159 | 259 | 409 | 609 | |
| 50 | 100 | 150 | 200 | | |

The wrong number is, 647

45) Answer: e)

Series- I pattern:

$$88 * 0.5 = 44$$

$$44 * 1 = 44$$

$$44 * 1.5 = 66$$

$$66 * 2 = 132$$

$$132 * 2.5 = 330$$

$$330 * 3 = 990$$

Series –II pattern:

$$96 * 0.5 = 48$$

$$48 * 1 = 48$$

$$48 * 1.5 = 72$$

$$72 * 2 = 144$$

$$144 * 2.5 = 360$$

$$360 * 3 = 1080$$

The wrong number is, 1008

46) Answer: b)

Series – I pattern:

$$12 * 8 = 96$$

$$96 * 7 = 672$$

$$672 * 6 = 4032$$

$$4032 * 5 = 20160$$

$$20160 * 4 = 80640$$

The bolded number is followed the given series.

Series – II pattern:

| | | | | | |
|----|----|----|----|-----------|-----|
| -7 | 11 | 32 | 59 | 95 | 143 |
| | 18 | 21 | 27 | 36 | 48 |
| | 3 | 6 | 9 | 12 | |

The bolded number is not followed the given series.

Series – III pattern:

| | | | | | | |
|----|-----------|-----|-----|------|------|------|
| 72 | 96 | 122 | 152 | 198 | 372 | 2594 |
| 24 | 26 | 30 | 46 | 174 | 2222 | |
| 2 | 4 | 16 | 128 | 2048 | | |

The bolded number is followed the given series.

47) Answer: d)

Series – I pattern:

$$79 + 121 (11^2) = 200$$

$$200 + 169 (13^2) = 369$$

$$369 + 225 (15^2) = 594$$

$$594 + 289 (17^2) = 883$$

$$883 + 361 (19^2) = 1244$$

The bolded number is followed the given series.

Series – II pattern:

$$1365 + 144 (12^2) = 1509$$

$$1509 - 196 (14^2) = 1313$$

$$1313 + 256 (16^2) = 1569$$

$$1569 - 324 (18^2) = 1245$$

$$1245 + 400 (20^2) = 1645$$

The bolded number is not followed the given series.

Series – III pattern:

$$3171 - 125 (5^3) = 3046$$

$$3046 - 216 (6^3) = 2830$$

$$2830 - 343 (7^3) = 2487$$

$$2487 - 512 (8^3) = 1975$$

$$1975 - 729 (9^3) = 1246$$

The bolded number is not followed the given series.

48) Answer: c)

Series – I pattern:

$$24 * 1 + 1 = 25$$

$$25 * 2 + 2 = 52$$

$$52 * 3 + 3 = 159$$

$$159 * 4 + 4 = 640$$

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$$640 * 5 + 5 = 3205$$

The bolded number is not followed the given series.

Series – II pattern:

$$12 * 2 + 2 = 26$$

$$26 * 2 + 2 = \mathbf{54}$$

$$54 * 2 + 2 = 110$$

$$110 * 2 + 2 = 222$$

$$222 * 2 + 2 = 446$$

The bolded number is followed the given series.

Series – III pattern:

$$12 * 1 + 1 = 13$$

$$13 * 2 + 2 = 28$$

$$28 * 1 + 1 = 29$$

$$29 * 2 + 2 = \mathbf{60}$$

$$60 * 1 + 1 = 61$$

$$61 * 2 + 2 = 124$$

$$124 * 1 + 1 = 125$$

The bolded number is not followed the given series.

49) Answer: e)

Series – I pattern:

$$64 * 0.5 + 1 = 33$$

$$33 * 1 + 1 = 34$$

$$34 * 1.5 + 1 = 52$$

$$52 * 2 + 1 = 105$$

$$105 * 2.5 + 1 = \mathbf{263.5}$$

The bolded number is not followed the given series.

Series – II pattern:

$$32 * 0.5 = 16$$

$$16 * 1.5 = 24$$

$$24 * 2.5 = 60$$

$$60 * 3.5 = \mathbf{210}$$

$$210 * 4.5 = 945$$

The bolded number is not followed the given series.

Series – III pattern:

$$128 * 0.5 + 1 = 65$$

$$65 * 1 + 3 = 68$$

$$68 * 2 + 5 = 141$$

$$141 * 4 + 7 = 571$$

$$571 * 8 + 9 = \mathbf{4577}$$

The bolded number is not followed the given series.



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50) Answer: d)

Series – I pattern:

$$9 * 2 + 1 = 19$$

$$19 * 3 + 2 = 59$$

$$59 * 4 + 3 = 239$$

$$239 * 5 + 4 = 1199$$

$$1199 * 6 + 5 = \mathbf{7199}$$

The bolded number is not followed the given series.

Series – II pattern:

$$78 * 2 = 156$$

$$156 * 3 = 468$$

$$468 * 5 = \mathbf{2340}$$

$$2340 * 7 = 16380$$

The bolded number is followed the given series.

Series – III pattern:

$$72 + 5 = 77$$

$$77 + 10 = 87$$

$$87 + 15 = 102$$

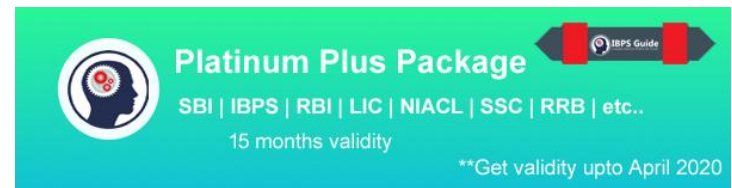
$$102 + 20 = 122$$

$$122 + 25 = \mathbf{147}$$

The bolded number is not followed the given series.



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