BYJU'S EXAM PREP

IBPS RRB PO 2022

50 Important Number Series Questions with Solution

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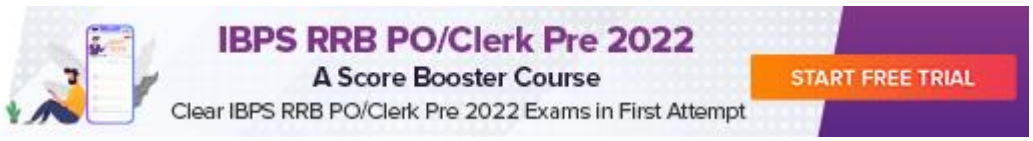
1. **Direction:** What should come in place of question mark (?) in the following number series?
   56, 28, 42, 105, 367.5, ?
   A. 1635.75 B. 1653.75
   C. 1563.75 D. 1536.75
   E. None of these
2. **Direction:** What will come in place of the question mark (?) in the following number series?
   28, 37, 64, 109, 172, ?
   A. 253 B. 265
   C. 234 D. 246
   E. None of these
3. **Direction:** What should come in place of question mark (?) in the following number series?
   23, 439, 647, 751, 803, ?
   A. 864 B. 819
   C. 855 D. 825
   E. None of these
4. **Direction:** What will come in place of the question mark (?) in the following number series?
   26, 35, 50, 63, 82, 99, (?)
   A. 136 B. 125
   C. 114 D. 122
   E. None of these
5. **Direction:** What will come in place of the question mark (?) in the following number series?
   45030 9000 1795 355 68 ?
   A. 11.6 B. 12.2
   C. 10.4 D. 9.8
   E. None of these
6. **Direction:** What will come in place of the question mark (?) in the following number series?
   7, 14, 40, 103, 227, ?
   A. 345 B. 442
   C. 375 D. 455
   E. 285
7. **Direction**: Find the Missing term in the following series:
   1600, 804, 410, 221, ?
   A. 130 B. 123
   C. 145 D. 150
   E. 142.5
8. **Direction:** What will come in place of the question mark (?) in the following number series?
   16, 22, 39, 66, 102, ?
   A. 150 B. 167
   C. 111 D. 146
   E. None of these
9. **Direction:** What value should come at the place of question mark (?) in the given number series?
   19, 18, 34, 99, ?, 1955, 11724
   A. 340 B. 450
   C. 325 D. 392
   E. 492
10. **Direction:** What should come at the place of question mark (?) in the following number series?
    9, 62, 371, 1854, ?
    A. 7450 B. 7415
    C. 7245 D. 7365
    E. 7541
11. **Direction:** What value should come at the place of question mark (?) in the given number series?
    12, 25, 27, 55, 57, ?
    A. 125 B. 112
    C. 165 D. 115
    E. 135
12. **:** What should come at the place of question mark (?) in the following number series?
    11826, 3942, 1314, 438, ?
    A. 142 B. 284
    C. 346 D. 402
    E. 146
13. **Directions:** What value should come at the place of question mark (?) in the following number series?
    72, 54, 68, 58, 64, ?
    A. 54 B. 55
    C. 62 D. 45
    E. 63
14. **Direction:** What will come in place of the question mark (?) in the following number series?
    8, 12.5, 26, 66.5, 201.5,?
    A. 707.75 B. 501.5
    C. 480.5 D. 808.25
    E. 606.25
15. **Direction:** What will come in place of the question mark (?) in the following number series?
    3, 5, 17, 53, 133, ?
    A. 235 B. 283
    C. 385 D. 350
    E. 320



16. **Direction**: What will come in place of the question mark (?) in the following number series?
9, 11, 15, **?**, 39, 71
A. 29 B. 23
C. 21 D. 27
E. 24

17. **Direction:** What will come in place of the question mark (?) in the following number series?
5, 6, 16, 57, 244, **?**
A. 1225 B. 992
C. 964 D. 1245
E. None of these

18. **Direction:** What will come in place of the question mark (?) in the following number series?
112, 119, 140, 175, 224, (?)
A. 277 B. 276
C. 287 D. 266
E. None of these

19. **Direction:** What will come in place of the question mark (?) in the following number series?
3, 100, 297, 594, 991, ?
A. 1489 B. 1479
C. 1478 D. 1498
E. None of these

20. **Direction**: What will come in place of the question mark (?) in the following number series?
7, 8, 12, 21, **?**, 62
A. 42 B. 51
C. 48 D. 35
E. None of these

21. **Direction:** In the following number series, only one number is missing. Find out the missing number.
7, 9, 12, 48, ?, 890
A. 128 B. 190
C. 172 D. 168
E. None of these

22. **Direction:** Find the missing number in the given series.
5, 33, 221, 1097, 3285, ?
A. 4512 B. 3142
C. 3281 D. 3944
E. 4125

23. **Direction:** What will come in place of the question mark (?) in the following number series?
13, 28, 87, 352, ?
A. 1655 B. 1765
C. 1775 D. 1725
E. 1685

24. **Directions:** What value should come at the place of question mark (?) in the given number series?
585, 586, 585, 580, 569, ?
A. 530 B. 576
C. 550 D. 523
E. 543

25. **Direction:** What will come in place of the question mark (?) in the following number series?
17, 98, 162, 211, 247, ?
A. 492 B. 521
C. 321 D. 445
E. 272

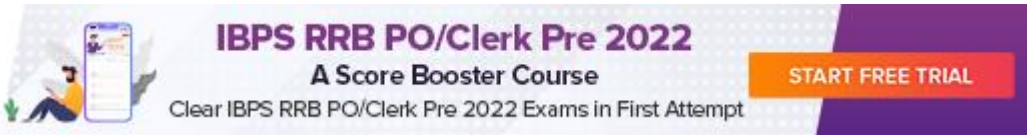
26. **Direction**: In the following number series, only one number is missing. Find out the missing number.
18 25 46 81 ? 193
A. 298 B. 130
C. 112 D. 120
E. 125

27. **Direction:** Find the missing number in the given series.
6, 16, 45, 184, 917, ?
A. 5500 B. 5510
C. 5506 D. 5400
E. 5515

28. **Direction:** What should come in place of question mark (?) in the following number series?
9 16 30 ? 114 226
A. 56 B. 62
C. 54 D. 58
E. 66

29. **Directions:** What value should come at the place of question mark (?) in the given number series?
79, 80, 162, ?, 1960
A. 370 B. 495
C. 489 D. 490
E. 324

30. **Direction:** What should come in the place of question mark '?' in the given questions.
3, 4, 6, 10, ?
A. 14 B. 12
C. 20 D. 18
E. 17



31. **Direction:** In the following number series, one of the numbers is wrong. Find out the wrong number.
36864, 9216, 2302, 576, 144
A. 36864 B. 9216
C. 2302 D. 144
E. 576

32. **Direction:** In the following number series, one of the numbers is wrong. Find out the wrong number.
17, 12, 19, 52, 203, 1010, 6060
A. 203 B. 1010
C. 12 D. 6060
E. 52

33. **Directions:** The following number series has a wrong number in it. Find out that wrong number and mark your answer accordingly:
13, 26, 46, 72, 101, 138
A. 13 B. 26
C. 46 D. 101
E. 138

34. **Direction:** The following number series has a wrong number in it. Find out that wrong number and mark your answer accordingly:
2, 10, 32, 68, 130, 222
A. 2 B. 32
C. 130 D. 222
E. 68

35. **Direction:** In the following number series, a wrong number is given. Find out that wrong number.
8, 13, 20, 32, 40, 53, 68
A. 13 B. 20
C. 32 D. 68
E. None of these

36. **Direction:** What should come in place of question mark (?) in the following number series?
522, 1235, 2661, 4800, 7652, 1121
7, **?**
A. 15495 B. 16208
C. 14782 D. 16921
E. 14069

37. **Directions:** In the following number series one number is wrong. Find out the wrong number.
12, 13, 30, 98, 412, 2085
A. 13 B. 412
C. 98 D. 30
E. 2085

38. **Direction:** In the following number series only one number is wrong. Find out the wrong number.
2, 9, 32, 105, 436, 2195, 13182
A. 436 B. 2195
C. 9 D. 32
E. None of these

39. **Direction:** In the following number series, a wrong number is given. Find out that wrong number.
31, 35, 79, 253, 1039
A. 1039 B. 253
C. 79 D. 35
E. 31

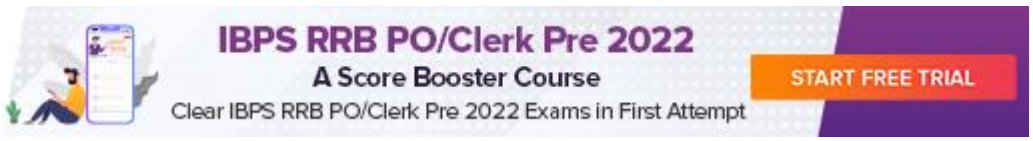
40. **Direction:** Find out the wrong number in the following number series.
7, 12, 48, 258, 2056, 20550
A. 7 B. 12
C. 48 D. 2056
E. 20550

41. **Direction:** In the following number series, one of the numbers is wrong. Find out the wrong number.
200, 50, 75, 18.75, 18.75, 23.4375, 35.15625
A. 200 B. 50
C. 75 D. 23.4375
E. 35.15625

42. **Direction:** In the following number series, a wrong number is given. Find out that wrong number.
3, 3, 6, 12, 24, 48, 95
A. 3 B. 6
C. 12 D. 48
E. 95

43. **Direction:** In the following number series, a wrong number is given. Find out that wrong number.
2, 4, 7, 12, 19, 29
A. 4 B. 7
C. 12 D. 19
E. 29

44. **Direction:** In the following number series, a wrong number is given. Find out that wrong number.
1, 3, 7, 12, 21, 31
A. 3 B. 7
C. 12 D. 21
E. 31



45. **Direction:** In the following number series, a wrong number is given. Find out that wrong number.
13.67, 10, 7.5, 5.625, 4.21875
A. 13.67 B. 10
C. 7.5 D. 5.625
E. 4.21875

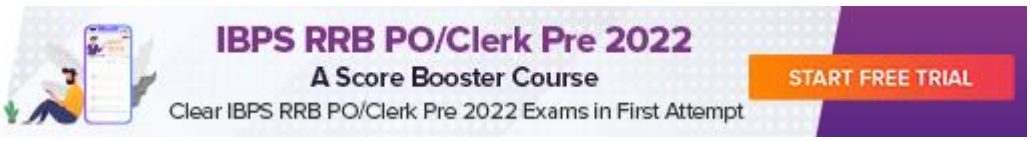
46. **Direction**: What should come in place of the question mark '?' in the following number series?
8, 18, 42, 107, 300, 870, 2574
A. 8 B. 107
C. 18 D. 42
E. 870

47. **Direction:** In the following number series, a wrong number is given. Find out that wrong number.
1500, 1581, 1664, 1749, 1833, 1925, 2016
A. 1581 B. 1664
C. 1833 D. 1925
E. 1749

48. **Directions:** In the following number series, a wrong number is given. Find out that wrong number.
1,3,6, 11, 20, 39, 70
A. 3 B. 39
C. 11 D. 20
E. 6

49. **Directions:** The following number series has a wrong number in it. Find out that wrong number and mark your answer accordingly:
6, 54, 84, 113, 128, 136, 139
A. 6 B. 54
C. 113 D. 84
E. 136

50. **Direction:** In the following number series, a wrong number is given. Find out that wrong number.
49, 120 ,169, 289, 361, 529,
A. 81 B. 144
C. 196 D. 120
E. 112



ANSWERS

1. Ans. B.
56*0.5 = 28
28*1.5 = 42
42*2.5 = 105
105*3.5 = 367.5
367.5*4.5 = **1653.75**

2. Ans. A.
28 + (9x1) = 37
37 + (9x3) = 64
64 + (9x5) = 109
109 + (9x7) = 172
172 + (9x9)= 253

3. Ans. E.
23 + 416 = 439
439 + (416/2) = 647
647 + (416/4) =751
751 + (416/8) = 803
803 + (416/16) = 829

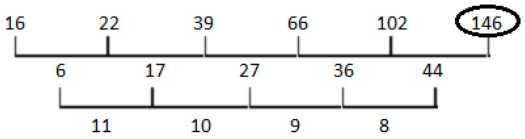
4. Ans. D.
The pattern is
$= 5^2+1, 6^2-1, 7^2+1,$
$8^2-1, 9^2+1, 10^2-1,$
So the missing term is
$=11^2+1, = 122$

5. Ans. A.
(45030/5) - 6 = 9000
(9000/5) - 5 = 1795
(1795/5) - 4 = 355
(355/5) - 3 = 68
(68/5) - 2 = 11.6

6. Ans. B.
Given series - 7, 14, 40, 103, 227, ?
The pattern is as follows:
7 + (2^3-1) = 14
14+(3^3-1) = 40
40+(4^3-1) = 103
103+(5^3-1) = 227
227+(6^3-1) = 442

7. Ans. E.
The series is
$1600/2 + 2^2 = 804$
$804/2 + 2^3 = 410$
$410/2 + 2^4 = 221$
$221/2 + 2^5 = 142.5$

8. Ans. D.



9. Ans. D.
19×1-1=18
18×2-2=34
34×3-3=99
99×4-4=392
392×5-5=1955
1955×6-6=11724

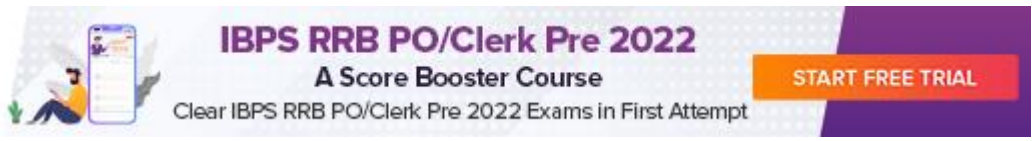
10. Ans. B.
9×7-1=62
62×6-1=371
371×5-1=1854
1854×4-1=7415

11. Ans. D.
Applying series ×2+1 and ×1+2 alternatively.
12×2+1=25
25×1+2=27
27×2+1=55
55×1+2=57
57×2+1=115

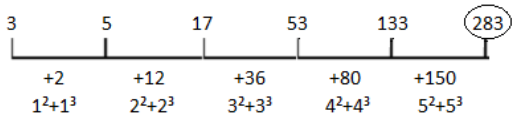
12. Ans. E.
11826/3=3942
3942/3=1314
1314/3=438
438/3=146

13. Ans. C.
72-18=54
54+14=68
68-10=58
58+6=64
64-2=62

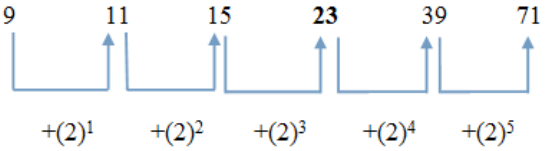
14. Ans. A.
8 x 1.5+ 0.5 =12.5
12.5 x 2 + 1=26
26 x 2.5 +1.5 =66.5
66.5 x 3 + 2 =201.5
201.5 x 3.5 + 2.5 =707.75



15. Ans. B.

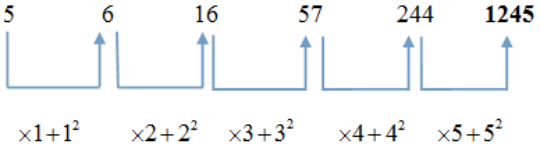


16. Ans. B.



So, 23 will come at the place of question mark.

17. Ans. D.

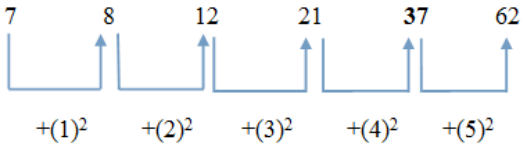


So, 1245 will come at the place of question mark.

18. Ans. C.
112 + 7 = 119
119 + 21 = 140
140 + 35 = 175
175 + 49 = 224
224 + 63 = 287
So, ? = 224 + 63 = 287

19. Ans. E.
3 + 97 = 100
100 + 197 = 297
297 + 297 = 594
594 + 397 = 991
991 + 497 = 1488
So, ? = 991 + 497 = 1488

20. Ans. E.



So, 37 will come at the place of question mark.

21. Ans. C.

Series Pattern	Given Series	
7	7	
7 × 1 + 1 × 2	9	
9 × 2 − 2 × 3	12	
12 × 3 + 3 × 4	48	
48 × 4 − 4 × 5	172	✓
172 × 5 + 5 × 6	890	

Hence, option C is correct.

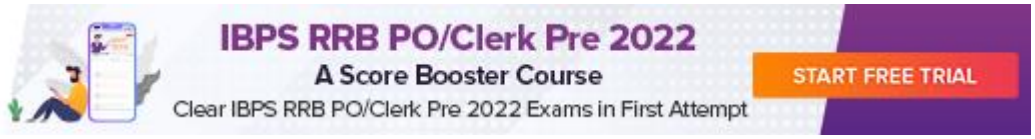
22. Ans. C.
5×9-12=33
33×7-10=221
221×5-8=1097
1097×3-6=3285
3285×1-4=3281

23. Ans. B.
13×2+2=28
28×3+3=87
87×4+4=352
352×5+5=1765

24. Ans. C.
585 586 585 580 569 550
difference of series
+1 -1 -5 -11 -19

+1 -1 -5 -11 -19
difference of difference of series
-2 -4 -6 -8
More detail:-
586-585 = 1
585- 586= -1..... -1 - (1) = -2
580 - 585 = -5 ..... -5 - (-1) = -4
569 - 580 =-11..... -11 - (-5) = -6
550 - 569 = -19..... -19-(-11) = -8

25. Ans. E.
$17+9^2 = 98$
$98+8^2 = 162$
$162+7^2 = 211$
$211+6^2 = 247$
$247+5^2 = 272$



26. Ans. B.
25-18 = 7
46-25 = 21 = 7*3
81-46 = 35 = 7*5
?-81 = 7*7 = 49
? = 130

27. Ans. C.
The sequence of the series is given below:
6 x 2 + 4 = 16
16 x 3 – 3 = 45
45 x 4 + 4 = 184
184 x 5 – 3 = 917
917 x 6 + 4 = 5506 = ?

28. Ans. D.
This series following this pattern,
+7, +14, +28, +56, +112
=30+28=**58**

29. Ans. C.
79×1+1=80
80×2+2=162
162×3+3=489
489×4+4=1960

30. Ans. D.
When we observe the given series, we get to know that

$2 + 2^0 = 3$

$2 + 2^1 = 4$

$2 + 2^2 = 6$

$2 + 2^3 = 10$

$2 + 2^4 = ? = 18$

31. Ans. C.
36864÷4=9216
9216÷4=2304
2304÷4=576
576÷4=144

32. Ans. D.
17×1-5 = 12
12×2-5 = 19
19×3–5 = 52
52×4-5 = 203
203×5–5 = 1010
1010×6-5 = 6055

33. Ans. D.

13	26	46	72	103	138
13	20	26	31	35	
7	6	5	4		

Hence Except 103 all the sequence follow the series in the question i.e.
13, 26, 46, 72, 101, 138
Therefore, 101 is wrong.

34. Ans. B.
The pattern of the series:
$1^3 + 1 = 2$
$2^3 + 2 = 10$
$3^3 + 3 = 30$
$4^3 + 4 = 68$
$5^3 + 5 = 130$
$6^3 + 6 = 222$
∴ The wrong number is 32.

35. Ans. C.
The pattern of the series:
8 + 5 = 13
13 + 7 = 20
20 + 9 = 29
29 + 11 = 40
40 + 13 = 53
53 + 15 = 68
∴ The wrong number is 32.

36. Ans. A.

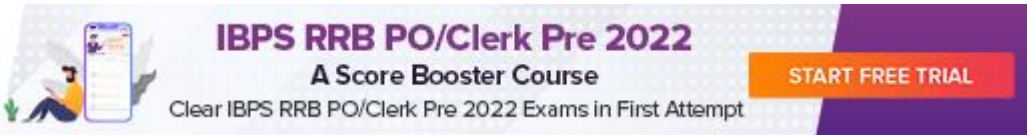
522	1235	2661	4800	7652	11217	**15495**

$+(1\times713)\ +(2\times713)\ +(3\times713)\ +(4\times713)\ +(5\times713)\ +(6\times713)$

So, **15495** will come at the place of question mark.

37. Ans. C.
$12*1 + 1^2 = 13$
$13*2 + 2^2 = 30$
$30*3 + 3^2 = 99$
$99*4 + 4^2 = 412$
$412*5 + 5^2 = 2085$
So wrong number is 98

38. Ans. D.
The pattern is
(2+7)*1 = 9
(9+6)*2 = 30
(30+5)*3 = 105
(105+4)*4 = 436
(436+3)*5 = 2195
(2195+2)*6 = 13182
So 32 is wrong



39. Ans. A.
31, 35, 79, 253, ?
The pattern is
$31 * 1 + 2^2 = 35$
$35 * 2 + 3^2 = 79$
$79 * 3 + 4^2 = 253$
$253 * 4 + 5^2 = 1037$
So next number is 1037

40. Ans. C.
The pattern is
7*2 - 2 = 12
12*4 - 4 = 44
44*6 - 6 = 258
258*8 - 8 = 2056
2056*10 - 10 = 20550
So 48 is wrong

41. Ans. C.
200 * 1/4 = 50
50 * 2/4 = 25
25 * 3/4 = 18.75
18.75 * 4/4 = 18.75
18.75 * 5/4 = 23.4375
23.4375 * 6/4 = 35.15625

42. Ans. E.
Every term is the sum of all its previous terms
3 = 3
6 = 3+3
12 = 3+3+6
24 = 3+3+6+12
48 = 3+3+6+12+24
3+3+6+12+24+48 = 96,
therefore 95 is the incorrect term.

43. Ans. E.
2 + 2 = 4,
(adding first prime number i.e. 2)
4 + 3= 7,
(adding second prime number i.e. 3)
7 + 5 = 12,
(adding third prime number i.e. 5)
12 + 7 = 19,
(adding fourth prime number i.e. 7)
19 + 11 = 30,
(adding fifth prime number i.e. 11)
= 30 and not 29
Therefore, 29 does not fit the series

44. Ans. C.
1*1 – 0 = 1
2*2 – 1 = 3
3*3 – 2 = 7
4*4 – 3 = 13
5*5 – 4 = 21
6*6 – 5 = 31

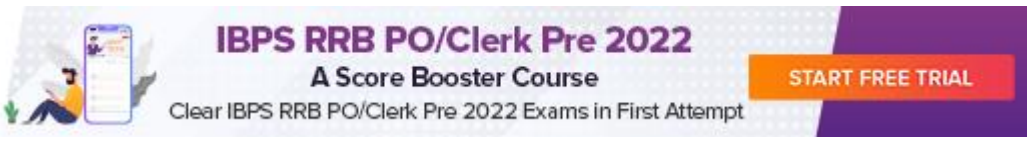
45. Ans. A.
13.33*0.75 = 10
(Should be 13.33 instead of 13.67)
10*0.75 = 7.5
7.5 * 0.75 = 5.625
5.625 * 0.75 = 4.21875

46. Ans. B.
Pattern: ×3 - 6, ×3 - 12, ×3 - 18, ×3 – 24, ×4 – 30, ×5 – 36
Series is 8, 18, 42, 108, 300, 870, 2574
hence 107 is wrong term.

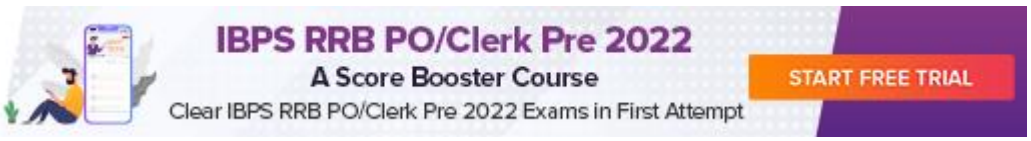
47. Ans. C.
$1400 + (10)^2 = 1500$
$1500 + (9)^2 = 1581$
$1600 + (8)^2 = 1664$
$1700 + (7)^2 = 1749$
$1800 + (6)^2 = 1836$
(hence 1833 is WRONG OPTION)
$1900 + (5)^2 = 1925$
$2000 + (4)^2 = 2016$
Hence option C is correct

48. Ans. B.
Pattern of series is
1 x 2 + 1 = 3;
3 x 2 + 0 = 6;
6 x 2 – 1 = 11;
11 x 2 – 2 = 20;
20 x 2 – 3 = 37;
(hence 39 is wrong term)
37 x 2 – 4 = 70

49. Ans. D.
The pattern of the number series is :
The differences between the numbers are forming the trend such that:
$54-6=48 = (7^2-1)$
$89-54=35 = (6^2-1)$ [89 in place of 84]
$113-89=24 = (5^2-1)$
$128-113 = 15 = (4^2-1)$



A pattern will be observed when 84 will be replaced by 89 hence 84 is the wrong term.

50. Ans. D.
The pattern of series is square of prime number ≥ 7

$7^2 = 49$
$11^2 = 121$ ---(hence 120 is wrong term)
$13^2 = 169$
$17^2 = 289$
$19^2 = 361$
$23^2 = 529$