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Number series Questions for LIC AAO Pre, SBI PO Pre, IBPS PO Pre, SBI Clerk Mains and IBPS Clerk Mains Exams.

Number series

Directions: What will come in place of question mark (?) in the following series?

1. 1024 520 268 142 ? 47.5

- A. 84 B. 82 C. 79 D. 88 E. None of these

2. 32 16.5 17.5 27.75 57.5 ?

- A. 136.25 B. 142.25 C. 146.25 D. 156.25 E. None of these

3. 6 16 34 62 102 ?

- A. 156 B. 132 C. 136 D. 142 E. None of these

4. 100 101 102 101 96 ? 66

- A. 97 B. 85 C. 108 D. 64 E. None of these

5. 3 10 24 50 ? 170

- A. 80 B. 82 C. 120 D. 121 E. None of these

6. 32 35 64 71 104 ? 152

- A. 110 B. 114 C. 115 D. 125 E. None of these

7. 4 20 29 38 47 56 ?

- A. 65 B. 64 C. 66 D. 62 E. None of these

8. 9 24 69 204 609 ?

- A. 1818 B. 1828 C. 1827 D. 1824 E. None of these

9. 582 751 555 724 528 ?

- A. 699 B. 702 C. 697 D. 695 E. None of these

10. 14 33 71 128 204 ?

- A. 289 B. 298 C. 225 D. 256 E. None of these

11. 8 12 18 27 40.5 60.75 ?

- A. 91.125 B. 88.125 C. 96.125 D. 101.125 E. None of these

12. 13 15 21 37 77 173 ?

- A. 349 B. 359 C. 357 D. 397 E. None of these

13. 8648 8834 9022 9212 9404 9598 ?

- A. 9754 B. 9774 C. 9668 D. 9794 E. None of these

14. 23 21 45 131 529 ? 15841

- A. 1058 B. 1587 C. 2116 D. 2639 E. None of these

15. 64 88 152 162 174 ?

- A. 200 B. 302 C. 202 D. 292 E. None of these

16. 43 47 56 81 130 ?

- A. 215 B. 251 C. 289 D. 231 E. None of these

17. 204 205 203 209 185 305 ?

- A. 428 B. 484 C. 416 D. 512 E. None of these

18. 1022 1009 983 944 892 ?

- A. 798 B. 812 C. 815 D. 827 E. None of these

19. 1025 1024 1019 1005 975 ?

- A. 920 B. 925 C. 905 D. 912 E. None of these

20. 196 201 208.5 218.5 231 ?

- A. 245 B. 248 C. 250 D. 246 E. None of these

21. 489, 510, 516, 528, 543, 555, ?

- A. 569 B. 570 C. 573 D. 568 E. None of these

22. 81, 91, 109, 146, 221, 351, ?

- A. 578 B. 582 C. 591 D. 576 E. None of these

23. 540, 538, 534, 526, 510, ?, 414

- A. 470 B. 478 C. 474 D. 472 E. None of these

24. 32, 24, 20, 18, 17, ?

- A. 16.5 B. 8.5 C. 12.5 D. 18.5 E. None of these

25. 1, 3, 9, 39, 249, 2559, ?

- A. 28561 B. 30458 C. 32589 D. 35289 E. None of these

26. 704, 88, 22, 8.25, ?

- A. 4.125 B. 6.50 C. 6.25 D. 5.25 E. None of these

27. 2, 10, 30, 68, 130, ?

- A. 221 B. 230 C. 222 D. 225 E. None of these

28. 1, 4, 15, 28, 57, 88, ?

- A. 133 B. 143 C. 157 D. 147 E. None of these

29. 122, 171, 228, 293, 366, ?

- A. 450 B. 455 C. 447 D. 465 E. None of these

30. 13, 15, 19, 27, 43, ?

- A. 74 B. 72 C. 73 D. 75 E. None of these

31. 25 33 54 99 179 ?

- A. 243 B. 240 C. 285 D. 305 E. None of these

32. 384 377 356 321 ? 209

- A. 328 B. 384 C. 284 D. 272 E. None of these

33. 5 9 16 32 75 ?

- A. 199 B. 200 C. 204 D. 212 E. None of these

34. 3 16 45 96 175 ?

- A. 290 B. 285 C. 288 D. 310 E. None of these

35. 3 11 29 67 145 ?

- A. 198 B. 303 C. 185 D. 309 E. None of these

36. 2, 12, 36, 80, 150, 252, ?

- A. 576 B. 392 C. 354 D. 382 E. None of these

37. 1, 5, 19, 81, 411, ?

- A. 1651 B. 2884 C. 1792 D. 2473 E. None of these

38. 9, 20, 36, 78, 148, 306, ?

- A. 612 B. 638 C. 600 D. 564 E. None of these

39. 17, 33, 64, 124, 240, 464, ?

- A. 946 B. 928 C. 986 D. 896 E. None of these

40. 15 19 83 119 631 ?

- A. 712 B. 693 C. 683 D. 731 E. None of these

41. 15 22 40 75 133 ?

- A. 243 B. 220 C. 253 D. 245 E. None of these

42. 24 31 52 87 136 ?

- A. 183 B. 189 C. 177 D. 199 E. None of these

43. 15 16 31 94 375 1876 ?

- A. 12256 B. 11056 C. 10244 D. 11256 E. None of these

44. 15 8 9 ? 32 82.5 250.5

- A. 12 B. 15 C. 25 D. 26 E. None of these

45. 1 9 61 497 4981 ?

- A. 56108 B. 58407 C. 59415 D. 59785 E. 57108

46. 2 5 23 119 ? 4079

- A. 611 B. 659 C. 451 D. 320 E. 560

47. 3 4 14 73 515 ?

- A. 4644 B. 4678 C. 4640 D. 3446 E. 3648

48. 7 16 30 62 122 ?

- A. 242 B. 240 C. 246 D. 244 E. 248

49. 11043 11056 11045 11054 11047 ?

- A. 11051 B. 11049 C. 10521 D. 11056 E. 11052

50. 256 128 192 480 ? 7560

- A. 1824 B. 1680 C. 1856 D. 1632 E. 1864



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Correct Answers

1	2	3	4	5	6	7	8	9	10
C	C	A	B	C	C	A	D	C	E
11	12	13	14	15	16	17	18	19	20
A	D	D	D	C	B	E	D	A	D
21	22	23	24	25	26	27	28	29	30
B	D	B	A	C	A	C	B	C	D
31	32	33	34	35	36	37	38	39	40
D	D	A	C	B	B	B	C	D	D
41	42	43	44	45	46	47	48	49	50
B	D	E	B	D	B	C	C	E	B



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Explanations:

1.

Series Pattern	Series
1024	1024
$1024 \div 2 + 8$	520
$520 \div 2 + 8$	268
$268 \div 2 + 8$	142
$142 \div 2 + 8$	79 ✓
$79 \div 2 + 8$	47.5

Hence, option C is correct.

2.

Series Pattern	Given Series
32	32 ✓
$32 \times \frac{1}{2} + \frac{1}{2} = 16.5$	16.5
$16.5 \times 1 + 1 = 17.5$	17.5
$17.5 \times \frac{3}{2} + \frac{3}{2} = 27.75$	27.75
$27.75 \times 2 + 2 = 57.5$	57.5
$57.5 \times \frac{5}{2} + \frac{5}{2} = 146.25$	146.25 ✓

Therefore, option C is correct.

3.

Series Pattern Given Series

6	6
$6 + 2 \times 5$	16
$16 + 3 \times 6$	34
$34 + 4 \times 7$	62
$62 + 5 \times 8$	102
$102 + 6 \times 9$	156 ✓

Hence, option (A) is correct.

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4.

Series Pattern Given Series

$100 - (2)^2 + 5$	101
$101 - (3)^2 + 10$	102
$102 - (4)^2 + 15$	101
$101 - (5)^2 + 20$	96
$96 - (6)^2 + 25$	85
$85 - (7)^2 + 30$	66



Hence, option B is correct.

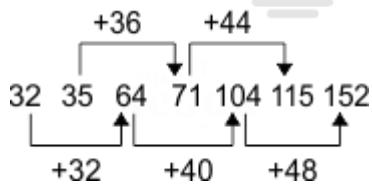
5.

Series Pattern Given Series

$2^2 - 1$	3
$3^2 + 1$	10
$5^2 - 1$	24
$7^2 + 1$	50
$11^2 - 1$	120
$13^2 + 1$	170

Hence, option C is correct.

6.



The Question Bank

7.

Series Pattern Given Series

4	4
$4 \times 4 + 4 = 20$	20
$4 \times 6 + 5 = 29$	29
$4 \times 8 + 6 = 38$	38
$4 \times 10 + 7 = 47$	47
$4 \times 12 + 8 = 56$	56
$4 \times 14 + 9 = 65$	65



Hence, option (A) is correct.

8.

Series Pattern Given Series

9	9
$9 + 15 = 24$	24
$24 + 15 \times 3 = 69$	69
$69 + 15 \times 3 \times 3 = 204$	204
$204 + 15 \times 3 \times 3 \times 3 = 609$	609

$$609 + 15 \times 3 \times 3 \times 3 \times 3 = 1824 \quad \text{1824} \quad \checkmark$$

Hence, option (D) is correct.

9.

Series Pattern Given Series

582	582
$582 + 169 = 751$	751
$751 - 196 = 555$	555
$555 + 169 = 724$	724
$724 - 196 = 528$	528

$$528 + 169 = 697 \quad \text{697} \quad \checkmark$$

Hence, option (C) is correct.

10.

Series Pattern Given Series

14	14
$14 + 19 = 33$	33
$33 + 19 \times 2 = 71$	71
$71 + 19 \times 3 = 128$	128
$128 + 19 \times 4 = 204$	204

$$204 + 19 \times 5 = 299 \quad \text{299} \quad \checkmark$$

Hence, option (E) is correct.

11.

Series Pattern Given Series

8	8
8×1.5	12
12×1.5	18
18×1.5	27
27×1.5	40.5
40.5×1.5	60.75
60.75×1.5	91.125

Hence, option (A) is correct.

12.

Series Pattern Given Series

$$13 \quad 13$$

$$13 + 2 \times 1 = 15 \quad 15$$

$$13 + 2^2 \times 2 = 21 \quad 21$$

$$13 + 2^3 \times 3 = 37 \quad 37$$

$$13 + 2^4 \times 4 = 77 \quad 77$$

$$13 + 2^5 \times 5 = 173 \quad 173$$

$$13 + 2^6 \times 6 = 397 \quad \text{397} \quad \checkmark$$

Hence, option (D) is correct.

13.

Series Pattern Given Series

$$93^2 - 1 \quad 8648$$

$$94^2 - 2 \quad 8834$$

$$95^2 - 3 \quad 9022$$

$$96^2 - 4 \quad 9212$$

$$97^2 - 5 \quad 9404$$

$$98^2 - 6 \quad 9598$$

$$99^2 - 7 \quad 9794$$

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Hence, option (D) is correct.

14.

Series Pattern Given Series

$$23 \quad 23$$

$$23 \times 1 - 2 = 21 \quad 21$$

$$21 \times 2 + 3 = 45 \quad 45$$

$$45 \times 3 - 4 = 131 \quad 131$$

$$131 \times 4 + 5 = 529 \quad 529$$

$$529 \times 5 - 6 = 2639 \quad \text{2639} \quad \checkmark$$

$$2639 \times 6 + 7 = 15841 \quad 15841$$

Hence, option (D) is correct.

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15.

Series Pattern	Given Series
-----------------------	---------------------

64	64
$64 + (6 \times 4) = 88$	88
$88 + (8 \times 8) = 152$	152
$152 + (1 \times 5 \times 2) = 162$	162
$162 + (1 \times 6 \times 2) = 174$	174
$174 + (1 \times 7 \times 4) = 202$	202

Hence, option (C) is correct.

16.

Series Pattern	Given Series
-----------------------	---------------------

43	43
$43 + 2^2 = 47$	47
$47 + 3^2 = 56$	56
$56 + 5^2 = 81$	81
$81 + 7^2 = 130$	130
$130 + 11^2 = 164$	251

Hence, option (B) is correct.

17.

Series Pattern	Given Series
-----------------------	---------------------

204	204
$204 + 1 = 205$	205
$205 - (1 \times 2) = 203$	203
$203 + (1 \times 2 \times 3) = 209$	209
$209 - (1 \times 2 \times 3 \times 4) = 185$	185
$185 + (1 \times 2 \times 3 \times 4 \times 5) = 305$	305
$305 - (1 \times 2 \times 3 \times 4 \times 5 \times 6) = -415$	-415

Hence, option (E) is correct.

18.

Series Pattern	Given Series
-----------------------	---------------------

1022	1022
$1022 - 13 = 1009$	1009
$1009 - 13 \times 2 = 983$	983
$983 - 13 \times 3 = 944$	944
$944 - 13 \times 4 = 892$	892
$892 - 13 \times 5 = 827$	827

Hence, option (D) is correct.

19.

Series Pattern	Given Series
1025	1025
$1025 - (1^2) = 1024$	1024
$1024 - (1^2 + 2^2) = 1019$	1019
$1019 - (1^2 + 2^2 + 3^2) = 1005$	1005
$1005 - (1^2 + 2^2 + 3^2 + 4^2) = 975$	975
$975 - (1^2 + 2^2 + 3^2 + 4^2 + 5^2) = 920$	920 ✓

Hence, option (A) is correct.

20.

Series Pattern	Given Series
196	196
$196 + 5 \times 1 = 201$	201
$201 + 5 \times 1.5 = 208.5$	208.5
$208.5 + 5 \times 2 = 218.5$	218.5
$218.5 + 5 \times 2.5 = 231$	231
$231 + 5 \times 3 = 246$	246 ✓

Alternate Solution:-

As we can see the difference between the numbers are 5, 7.5, 10, 12.5 respectively and it is in AP with common difference 2.5. So to get the last term we need to add $(12.5 + 2.5) = 15$. So the last term will be $231 + 15 = 246$

Hence, option (D) is correct.

21.

Series Pattern	Given Series
489	489
$489 + (4 + 8 + 9) = 510$	510
$510 + (5 + 1 + 0) = 516$	516
$516 + (5 + 1 + 6) = 528$	528
$528 + (5 + 2 + 8) = 543$	543
$543 + (5 + 4 + 3) = 555$	555
$555 + (5 + 5 + 5) = 570$	570 ✓

Hence, option (B) is correct.

22.

Series Pattern	Given Series
81	81
$81 + (1^3 + 8 + 1) = 91$	91
$91 + (2^3 + 9 + 1) = 109$	109
$109 + (3^3 + 1 + 0 + 9) = 146$	146
$146 + (4^3 + 1 + 4 + 6) = 221$	221
$221 + (5^3 + 2 + 2 + 1) = 351$	351
$351 + (6^3 + 3 + 5 + 1) = 576$	576 ✓

Hence, option (D) is correct.

23.

Series Pattern	Given Series
540	540
$540 - 2 = 538$	538
$538 - 4 = 534$	534
$534 - 8 = 526$	526
$526 - 16 = 510$	510
$510 - 32 = 478$	478 ✓
$478 - 64 = 414$	414

Hence, option (B) is correct.

24.

Series Pattern	Given Series
32	32
$32 \div 2 + 8$	24
$24 \div 2 + 8$	20
$20 \div 2 + 8$	18
$18 \div 2 + 8$	17
$17 \div 2 + 8$	16.5 ✓

Hence, option (A) is correct.

The Question Bank

25.

Series Pattern	Given Series
1	1
$1 + 2 = 3$	3
$3 + 2 \times 3 = 9$	9
$9 + 2 \times 3 \times 5 = 39$	39
$39 + 2 \times 3 \times 5 \times 7 = 249$	249
$249 + 2 \times 3 \times 5 \times 7 \times 11 = 2559$	2559
$2559 + 2 \times 3 \times 5 \times 7 \times 11 \times 13 = 32589$	32589 ✓

Hence, option (C) is correct.

26.

Series Pattern Given Series

704	704
$704 \times (1/8) = 88$	88
$88 \times (2/8) = 22$	22
$22 \times (3/8) = 8.25$	8.25
$8.25 \times (4/8) = 4.125$	4.125 ✓

Hence, option (A) is correct.

27.

Series Pattern Given Series

$1^3 + 1 = 2$	2
$2^3 + 2 = 10$	10
$3^3 + 3 = 30$	30
$4^3 + 4 = 68$	68
$5^3 + 5 = 130$	130
$6^3 + 6 = 222$	222 ✓

Hence, option (C) is correct.

28.

Series Pattern Given Series

1	1
$1 + (2^2 - 1) = 4$	4
$4 + (3^2 + 2) = 15$	15
$15 + (4^2 - 3) = 28$	28
$28 + (5^2 + 4) = 57$	57
$57 + (6^2 - 5) = 88$	88
$88 + (7^2 + 6) = 143$	143 ✓

Hence, option (B) is correct.

29.

Series Pattern Given Series

$11^2 + 1 = 122$	122
$13^2 + 2 = 171$	171
$15^2 + 3 = 228$	228
$17^2 + 4 = 293$	293
$19^2 + 5 = 366$	366
$21^2 + 6 = 447$	447 ✓

Hence, option (C) is correct.

30.

Series Pattern Given Series

13	13
$13 + 2 = 15$	15
$15 + 2^2 = 19$	19
$19 + 2^3 = 27$	27
$27 + 2^4 = 43$	43
$43 + 2^5 = 75$	75 ✓

Hence, option (D) is correct.

31.

Series I : 25 33 54 99 179 ?

Series II : 8 21 45 80 ?

Series III: 13 24 35 ?

**Series IV: 11 11 11
 0 0**

Clearly, the pattern in series III is +11.

So, the missing term in series III = $35 + 11 = 46$;

∴ missing term in series II = $80 + 46 = 126$;

∴ missing term in series I = $126 + 179 = 305$.

Finally the series will become as follows:

Series I : 25 33 54 99 179 305

Series II : 8 21 45 80 126

Series III: 13 24 35 46

**Series IV: 11 11 11
 0 0**

Hence, option D is correct.

32. Approach I:

Series Pattern Given Series

384	384
$384 - 7 (=1 \times 7) = 377$	377
$377 - 21 (=3 \times 7) = 356$	356
$356 - 35 (=5 \times 7) = 321$	321
$321 - 49 (=7 \times 7) = 272$	272 ✓
$272 - 63 (=9 \times 7) = 209$	209

Approach II: Triangular Method

Series I : 384 377 356 321 ? 209

Series II : -7 -21 -35 ? ?

Series III : -14 -14 -14 -14

Series IV : 0 0

Clearly, the pattern in series II is -14. So, the missing term in series II = $-14 - 35 = -49$; and the next missing term in series II = $-14 - 49 = -63$; \therefore missing term in series I = $321 - 49 = 272$. Finally the series will become as follows:

Series I : 384 377 356 321 **272** 209

Series II : -7 -21 -35 **-49** **-63**

Series III : -14 -14 -14 -14

Series IV : 0 0 0

Hence, option D is correct.

33.

Series I : 5 9 16 32 75 ?

Series II : 4 7 16 43 ?

Series III : 3 9 27 ?

Series IV : $\times 3$ $\times 3$ $\times 3$

Clearly, the pattern in series III is multiples of 3.

So, the missing term in series III = $27 \times 3 = 81$

\therefore missing term in series II = $43 + 81 = 124$;

\therefore missing term in series I = $75 + 124 = 199$. Finally the series become as follows:

Series I : 5 9 16 32 75 **199**

Series II : 4 7 16 43 **124**

Series III : 3 9 27 **81**

Series IV : $\times 3$ $\times 3$ $\times 3$

Hence, option A is correct.

34.

Series Pattern Given Series

$2^2 \times 1 - 1$	3
$3^2 \times 2 - 2$	16
$4^2 \times 3 - 3$	45
$5^2 \times 4 - 4$	96
$6^2 \times 5 - 5$	175
$7^2 \times 6 - 6$	288 ✓

Hence, option C is correct.

35.

Series Pattern Given Series

3	3
$3 \times 2 + 5$	11
$11 \times 2 + 7$	29
$29 \times 2 + 9$	67
$67 \times 2 + 11$	145
$145 \times 2 + 13$	303 ✓

Hence, option B is correct.

36.

Series Pattern Series

$1^2 + 1^3$	2
$2^2 + 2^3$	12
$3^2 + 3^3$	36
$4^2 + 4^3$	80
$5^2 + 5^3$	150
$6^2 + 6^3$	252
$7^2 + 7^3$	392 ✓

Hence, option B is correct.

37.

Series Pattern Series

1	1
$(1 \times 2) + 3$	5
$(5 \times 3) + 4$	19
$(19 \times 4) + 5$	81
$(81 \times 5) + 6$	411
$(411 \times 6) + 7$	2473 ✓

Hence, option D is correct.

38.

Series Pattern Series

9	9
$9 \times 2 + 2$	20
$20 \times 2 - 4$	36
$36 \times 2 + 6$	78
$78 \times 2 - 8$	148
$148 \times 2 + 10$	306
$306 \times 2 - 12$	600 ✓

Hence, option C is correct.

- 39.** As series begins with 17, the pattern followed is;

Series Pattern Series

17	17
$2 \times 17 - 1$	33
$2 \times 33 - 2$	64
$2 \times 64 - 4$	124
$2 \times 124 - 8$	240
$2 \times 240 - 16$	464
$2 \times 464 - 32$	896 ✓

Hence, option D is correct.

- 40.**

Series Pattern Given Series

15	15
$15 + 2^2 = 19$	19
$19 + 4^3 = 83$	83
$83 + 6^2 = 119$	119
$119 + 8^3 = 631$	631
$631 + 10^2 = 731$	731 ✓

Hence, option D is correct.

- 41.**

Series I : 15 22 40 75 133 ?

Series II : +7 +18 +35 +58 ?

Series III: +11 +17 +23 ?

Series IV: +6 +6 +6
 0 0

Clearly, the pattern of series III is that '6' is added to get the next number. So, the missing term in series III is $(23 + 6) = 29$; ∴ missing term in series II is $(58 + 29) = 87$; ∴ missing term in series I is $(87 + 133) = 220$. Finally the series will become as follows:

Series I : 15 22 40 75 133 220

Series II : +7 +18 +35 +58 +87

Series III : +11 +17 +23 +29

Series IV : +6 +6 +6
 0 0

Hence, option B is correct.

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42.

Series Pattern	Given Series
24	24
$24 + 7 (=7 \times 1) = 31$	31
$31 + 21 (=7 \times 3) = 52$	52
$52 + 35 (=7 \times 5) = 87$	87
$87 + 49 (=7 \times 7) = 136$	136
$136 + 63 (=7 \times 9) = 199$	199 ✓

Hence, the option D is correct.

43.

Series Pattern	Given Series
15	15
$15 \times 1 + 1 = 16$	16
$16 \times 2 - 1 = 31$	31
$31 \times 3 + 1 = 94$	94
$94 \times 4 - 1 = 375$	375
$375 \times 5 + 1 = 1876$	1876
$1876 \times 6 - 1 = 11255$	11255 ✓

Hence, the option E is correct.

44.

Series Pattern	Given Series
15	15
$15 \times \frac{1}{2} + \frac{1}{2} = 8$	8
$8 \times 1 + 1 = 9$	9
$9 \times \frac{3}{2} + \frac{3}{2} = 15$	15 ✓
$15 \times 2 + 2 = 32$	32
$32 \times \frac{5}{2} + \frac{5}{2} = 82.5$	82.5
$82.5 \times 3 + 3 = 250.5$	250.5

Hence, the option B is correct.

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45.

Series Pattern Given Series

1	1
$1 \times 4 + 5$	9
$9 \times 6 + 7$	61
$61 \times 8 + 9$	497
$497 \times 10 + 11$	4981
$4981 \times 12 + 13$	59785 ✓

Hence, option D is correct.

46.

Series Pattern Given Series

2	2
$2 \times 2+1^3$	5
$5 \times 3+2^3$	23
$23 \times 4+3^3$	119
$119 \times 5+4^3$	659 ✓
$320 \times 6+5^3$	4079

Hence, option B is correct.

47.

Series Pattern Given Series

3	3
$3 \times 1 + 1$	4
$4 \times 3 + 2$	14
$14 \times 5 + 3$	73
$73 \times 7 + 4$	515
$515 \times 9 + 5$	4640 ✓

Hence, option C is correct.

48.

Series Pattern Series

9	9
$9 \times 2 + 2$	20
$20 \times 2 - 4$	36
$36 \times 2 + 6$	78
$78 \times 2 - 8$	148
$148 \times 2 + 10$	306
$306 \times 2 - 12$	600 ✓

Hence, option C is correct.

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The Question Bank

49.

Series Pattern Given Series

11043	11043
$11043 + 13$	11056
$11056 - 11$	11045
$11045 + 9$	11054
$11054 - 7$	11047
$11047 + 5$	11052 ✓

Hence, option E is correct.

50.

Series Pattern Given Series

256	256
256×0.5	128
128×1.5	192
192×2.5	480
480×3.5	1680 ✓
1680×4.5	7560

Hence, option B is correct.

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