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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 Quiz 42

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

1. 25 33 54 99 179 ?

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

2. 384 377 356 321 ? 209

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

3. 5 9 16 32 75 ?

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

4. 3 16 45 96 175 ?

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

5. 3 11 29 67 145 ?

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

6. 2, 12, 36, 80, 150, 252, ?

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

7. 1, 5, 19, 81, 411, ?

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

8. 9, 20, 36, 78, 148, 306, ?

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

9. 17, 33, 64, 124, 240, 464, ?

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

10. 15 19 83 119 631 ?

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

Correct Answers:

1	2	3	4	5	6	7	8	9	10
D	D	A	C	B	B	B	C	D	D

Explanations:

1.

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.

2. 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.

3.

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.

4.

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.

5.

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.

6.

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.

07.

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.

8.

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.

9. As series begins with 17, the pattern followed is;

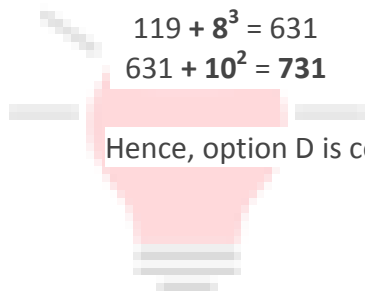
Series Pattern	Series
17	17
$2 \times 17 - 1$	33
$2 \times 33 - 2$	64
$2 \times 64 - 4$	124
$2 \times 124 - 8$	240
$2 \times 240 - 16$	464
$2 \times 464 - 32$	896 ✓

Hence, option D is correct.

10.

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.



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