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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 40

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

1. 8 12 18 27 40.5 60.75 ?

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

2. 13 15 21 37 77 173 ?

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

3. 8648 8834 9022 9212 9404 9598 ?

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

4. 23 21 45 131 529 ? 15841

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

5. 64 88 152 162 174 ?

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

6. 43 47 56 81 130 ?

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

7. 204 205 203 209 185 305 ?

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

8. 1022 1009 983 944 892 ?

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

9. 1025 1024 1019 1005 975 ?

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

10. 196 201 208.5 218.5 231 ?

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

Correct Answers:

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

Explanations:

1.

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.

2.

Series Pattern **Given Series**

13	13
$13 + 2 \times 1 = 15$	15
$13 + 2^2 \times 2 = 21$	21
$13 + 2^3 \times 3 = 37$	37
$13 + 2^4 \times 4 = 77$	77
$13 + 2^5 \times 5 = 173$	173
$13 + 2^6 \times 6 = 397$	397 ✓

Hence, option (D) is correct.

3.

Series Pattern **Given Series**

$93^2 - 1$	8648
$94^2 - 2$	8834
$95^2 - 3$	9022
$96^2 - 4$	9212
$97^2 - 5$	9404
$98^2 - 6$	9598
$99^2 - 7$	9794 ✓

Hence, option (D) is correct.

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4.

Series Pattern	Given Series
23	23
$23 \times 1 - 2 = 21$	21
$21 \times 2 + 3 = 45$	45
$45 \times 3 - 4 = 131$	131
$131 \times 4 + 5 = 529$	529
$529 \times 5 - 6 = 2639$	2639 ✓
$2639 \times 6 + 7 = 15841$	15841

Hence, option (D) is correct.

5.

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.

6.

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.

07.

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.

8.

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.

9.

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.

10.

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.



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