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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 41

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

1. 489, 510, 516, 528, 543, 555, ?

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

2. 81, 91, 109, 146, 221, 351, ?

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

3. 540, 538, 534, 526, 510, ?, 414

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

4. 32, 24, 20, 18, 17, ?

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

5. 1, 3, 9, 39, 249, 2559, ?

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

6. 704, 88, 22, 8.25, ?

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

7. 2, 10, 30, 68, 130, ?

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

8. 1, 4, 15, 28, 57, 88, ?

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

9. 122, 171, 228, 293, 366, ?

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

10. 13, 15, 19, 27, 43, ?

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

### Correct Answers:

<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>
B	D	B	A	C	A	C	B	C	D

### Explanations:

1.

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
$555 + (5 + 5 + 5) = 570$	<b>570</b> ✓

Hence, option (B) is correct.

2.

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
$351 + (6^3 + 3 + 5 + 1) = 576$	<b>576</b> ✓

Hence, option (D) is correct.

3.

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

Hence, option (B) is correct.

4.

**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
$17 \div 2 + 8$	<b>16.5</b> ✓

Hence, option (A) is correct.

5.

**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
$2559 + 2 \times 3 \times 5 \times 7 \times 11 \times 13 = 32589$	<b>32589</b> ✓

Hence, option (C) is correct.

6.

**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
$8.25 \times (4/8) = 4.125$	<b>4.125</b> ✓

Hence, option (A) is correct.

07.

**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
$6^3 + 6 = 222$	<b>222</b> ✓

Hence, option (C) is correct.

8.

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
$88 + (7^2 + 6) = 143$	<b>143</b> ✓

Hence, option (B) is correct.

9.

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
$21^2 + 6 = 447$	<b>447</b> ✓

Hence, option (C) is correct.

10.

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
$43 + 2^5 = 75$	<b>75</b> ✓

Hence, option (D) is correct.



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