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

## Number series Quiz 25

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

1. 98, 144, 198, ?, 330, 408, 494

A. 240                      B. 256                      C. 212                      D. 260                      E. None of these

2. 7055, 7223, 7393, 7565, ?, 7915

A. 7739                      B. 7839                      C. 7639                      D. 7749                      E. None of these

3. 6477, 6626, 6778, ?, 7091, 7252, 7416

A. 6933                      B. 6883                      C. 6893                      D. 6943                      E. None of these

4. 2184, 2730, 3360, 4080, 4896, ?, 6840

A. 5804                      B. 5794                      C. 5814                      D. 5914                      E. None of these

5. 132, 462, 272, 175, 115.2, ?, 43.4

A. 60                      B. 66.5                      C. 78                      D. 52.5                      E. None of these

6. 19 26 46 91 173 ?

A. 243                      B. 294                      C. 304                      D. 345                      E. None of these

7. 110 125 230 545 ? 2525

A. 1238                      B. 1240                      C. 1413                      D. 1150                      E. None of these

8. 420 413 392 357 ? 245

A. 313                      B. 308                      C. 284                      D. 272                      E. None of these

9. 43 52 81 74 135 ?

A. 96                      B. 104                      C. 106                      D. 168                      E. None of these

10. 10 14 25 55 140 ?

A. 386                      B. 120                      C. 388                      D. 396                      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>
D	A	A	C	E	C	A	B	A	C

## Explanations:

1.

Series Pattern	Series
98	98
98 + 46	144
144 + 54	198
198 + 62	<b>260</b> ✓
260 + 70	330
330 + 78	408
408 + 86	494

Hence, option D is correct.

2.

Series Pattern	Series
$84^2 - 1 = 7055$	7055
$85^2 - 2 = 7223$	7223
$86^2 - 3 = 7393$	7393
$87^2 - 4 = 7555$	7565
$88^2 - 5 = 7739$	<b>7739</b> ✓
$89^2 - 6 = 7915$	7915

Hence, option A is correct.

3.

Series Pattern	Series
6477	6477
6477 + 149	6626
6626 + 152	6778
6778 + 155	<b>6933</b> ✓
6933 + 158	7091
7091 + 161	7252
7252 + 164	7416

Hence, option A is correct.

4.

Series Pattern	Series
$(13)^3 - 13$	2184
$(14)^3 - 14$	2730
$(15)^3 - 15$	3360
$(16)^3 - 16$	4080
$(17)^3 - 17$	4896
$(18)^3 - 18$	<b>5814</b> ✓
$(19)^3 - 19$	6840

Hence, option C is correct.

5.

Series Pattern	Series
132	132
$132 \times \frac{7}{2}$	462
$136 \times \frac{6}{3}$	272
$140 \times \frac{5}{4}$	175
$144 \times \frac{4}{5}$	115.2
$148 \times \frac{3}{6}$	<b>74</b> ✓
$152 \times \frac{2}{7}$	43.4

Hence, option E is correct.

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6.

Series I :	19	26	46	91	173	?
Series II :	7	20	45	82	?	
Series III:	13	25	37	?		
Series IV:		12	12	12		
		0	0			

Clearly, the pattern in series III is +12.

So, the missing term in series III =  $37 + 12 = 49$ ;

∴ missing term in series II =  $82 + 49 = 131$ ;

∴ missing term in series I =  $173 + 131 = 304$ .

Finally the series will become as follows:

Series I :	19	26	46	91	173	<b>304</b>
Series II :	7	20	45	82	<b>131</b>	
Series III :	13	25	37	<b>49</b>		
Series IV :		12	12	12		
		0	0			

Hence, option C is correct.

7.

Series Pattern	Given Series
110	110
$110 + 15 (=1 \times 3 \times 5) = 125$	125
$125 + 105 (=3 \times 5 \times 7) = 230$	230
$230 + 315 (=5 \times 7 \times 9) = 545$	545
$545 + 693 (=7 \times 9 \times 11) = 1238$	<b>1238</b> ✓
$1238 + 1287 (=9 \times 11 \times 13) = 2525$	2525

Hence, option A is correct.

8.

Series Pattern	Given Series
420	420
$420 - 7 (=1 \times 7) = 413$	413
$413 - 21 (=3 \times 7) = 392$	392
$392 - 35 (=5 \times 7) = 357$	357
$357 - 49 (=7 \times 7) = 308$	<b>308</b> ✓
$308 - 63 (=9 \times 7) = 245$	245

Hence, option B is correct.

9.

Series Pattern	Given Series
$6 \times 7 + 1^2$	43
$7 \times 8 - 2^2$	52
$8 \times 9 + 3^2$	81
$9 \times 10 - 4^2$	74
$10 \times 11 + 5^2$	135
$11 \times 12 - 6^2$	<b>96</b> ✓

Hence, option A is correct.

10.  $14 - 10 = 4$

$$25 - 14 = 11 = 4 \times 3 - 1$$

$$55 - 25 = 30 = 11 \times 3 - 3$$

$$140 - 55 = 85 = 30 \times 3 - 5$$

$$\therefore X = 140 + 85 \times 3 - 7$$

$$= 140 + 248 = \mathbf{388}$$

Hence, option C is correct.



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