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# Number series Questions for Bank Exams.

## Number series Quiz 9

Directions: Find the missing element in the given series:

1. 21 ? 73 138 229 346

- A. 45                      B. 34                      C. 20                      D. 15                      E. None of these

2. 1 ? 6 21 88 445

- A. 14                      B. 2                      C. 8                      D. 5                      E. None of these

3. 48 ? 36 90 315 1417.5

- A. 16                      B. 30                      C. 45                      D. 24                      E. None of these

4. 9 11 15 ? 39 71

- A. 22                      B. 28                      C. 23                      D. 19                      E. None of these

5. 38 42 106 142 654 ?

- A. 854                      B. 823                      C. 754                      D. 789                      E. None of these

6. 42 163 332 621 ? 1511

- A. 950                      B. 1026                      C. 956                      D. 1002                      E. None of these

7. 11 20 43 88 ? 276

- A. 159                      B. 129                      C. 163                      D. 175                      E. None of these

8. 6 ? 39 83 171 347

- A. 21                      B. 10                      C. 11                      D. 17                      E. None of these

9. 156 ? 186 312 656 1386

- A. 158                      B. 175                      C. 169                      D. 161                      E. None of these

10. 22 20 37 107 423 ?

- A. 2209                      B. 2345                      C. 1963                      D. 1576                      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	B	D	C	C	E	C	D	A	E

**Explanations:**

1.

Series Pattern	Given Series
21	21
$21 + 13$	<b>34</b> ✓
$34 + 39$	73
$73 + 65$	138
$138 + 91$	229
$229 + 117$	346

Hence, option B is correct.

2.

Series Pattern	Given Series
1	1
$1 \times 1 + 1$	<b>2</b> ✓
$2 \times 2 + 2$	6
$6 \times 3 + 3$	21
$21 \times 4 + 4$	88
$88 \times 5 + 5$	445

Hence, option B is correct.

3.

Series Pattern	Given Series
48	48
$48 \times 0.5$	<b>24</b> ✓
$24 \times 1.5$	36
$36 \times 2.5$	90
$90 \times 3.5$	315
$315 \times 4.5$	1417.5

Hence, option D is correct.

4.

Series Pattern	Given Series
9	9
$9 + 2$	11
$11 + 4$	15
$15 + 8$	<b>23</b> ✓
$23 + 16$	39
$39 + 32$	71

Hence, option C is correct.

5.

Series Pattern	Given Series
38	38
$38 + 2^2 = 42$	42
$42 + 4^3 = 106$	106
$106 + 6^2 = 142$	142
$142 + 8^3 = 654$	654
$654 + 10^2 = 754$	<b>754</b> ✓

Hence, option (C) is correct.

6.

Series I :	42	163	332	621	?	1511
Series II:	+121	+169	+289	?	?	
	$11^2$	$13^2$	$17^2$	$19^2$	$23^2$	

Clearly, the pattern in series II is square of prime numbers.

So, the missing term in series II = 361, 529

∴ missing term in series I =  $621 + 361 = 982$

Series I :	42	163	332	621	<b>982</b>	1511
Series II:	+121	+169	+289	<b>+361</b>	<b>+529</b>	
	$11^2$	$13^2$	$17^2$	$19^2$	$23^2$	

Hence, option E is correct.

7.

Series I :	11	20	43	88	?	276
Series II :	9	23	45	<b>75</b>	?	
Series III :	14	22	<b>30</b>	?		
Series IV :		+8	<b>+8</b>	<b>+8</b>		

Clearly, the pattern in series IV is addition of 8.

So, the missing term in series III =  $30 + 8 = 38$

∴ missing term in series II =  $75 + 38 = 113$ ;

∴ missing term in series I =  $88 + 75 = 163$ .

Series I :	11	20	43	88	<b>163</b>	276
Series II :	9	23	45	<b>75</b>	<b>113</b>	
Series III :	14	22	<b>30</b>	<b>38</b>		
Series IV :		+8	<b>+8</b>	<b>+8</b>		

Hence, option C is correct.

8.

Series Pattern	Given Series	
6	6	
$6 \times 2 + 5$	<b>17</b>	✓
$17 \times 2 + 5$	39	
$39 \times 2 + 5$	83	
$83 \times 2 + 5$	171	
$171 \times 2 + 5$	347	

Hence, option D is correct..

9.

Series Pattern	Given Series	
156	156	
$156 + (1^3 + 1)$	<b>158</b>	✓
$158 + (3^3 + 1)$	186	
$186 + (5^3 + 1)$	312	
$312 + (7^3 + 1)$	656	
$656 + (9^3 + 1)$	1386	

Hence, option A is correct.

10.

Series Pattern	Series	
22	22	
$22 \times 1 - 2$	20	
$20 \times 2 - 3$	37	
$37 \times 3 - 4$	107	
$107 \times 4 - 5$	423	
$423 \times 5 - 6$	<b>2109</b>	✓

Hence, option E is correct.



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