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Series Questions with Solution for UGC NET Exam.

Series Quiz 1

Directions : Choose the correct alternative from the given ones that will complete the series.

1. 66 40 67 45 69 ?

- A. 50 B. 60 C. 75 D. 49

2. 50 59 75 100 ?

- A. 215 B. 121 C. 136 D. 125

3. 3 14 33 60 ?

- A. 99 B. 90 C. 100 D. 95

4. 4, 3, 6, 6, 8, 12, 10, 24, 12, ?

- A. 34 B. 14 C. 48 D. 28

5. 2, 4, 6, 10, 16, 26, 42, ?

- A. 62 B. 68 C. 78 D. 72

6. 2, 2, 6, 10, 12, 30, 20, 68, 30, ?

- A. 70 B. 100 C. 130 D. 150

7. 12, 23, 35, 47, 511, 613, ?

- A. 715 B. 719 C. 717 D. 721

8. 6, 13, 28, 59, ?

- A. 108 B. 159 C. 122 D. 118

9. 4, 12, 36, 108, ?

- A. 216 B. 124 C. 304 D. 324

10. 8, 4, 6, 15, 52.5, ?

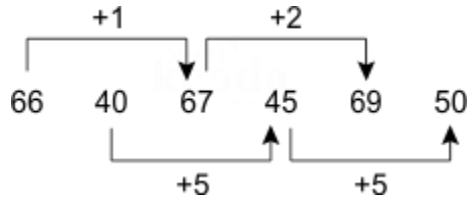
- A. 230.52 B. 232.52 C. 236.25 D. 234.25

Correct Answers:

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

Explanations:

1.



Hence, option A is correct.

2. $50 + 3^2 = 59$, $59 + 4^2 = 75$, $75 + 5^2 = 100$, $100 + 6^2 = 136$

Hence, option C is correct.

3. **Pattern of the given series:**

$$2^2 - 1 = 3$$

$$4^2 - 2 = 14$$

$$6^2 - 3 = 33$$

$$8^2 - 4 = 60$$

$$(10)^2 - 5 = 95$$

Hence, option D is correct.

4. Given series = 4, 3, 6, 6, 8, 12, 10, 24, 12, ?

There are two series (4, 6, 8, 10, 12) and (3, 6, 12, 24, 48...)

Find one increase by 2 and second one is multiplied by 2. Hence the series is 4,

3, 6, 6, 8, 12, 10, 24, 12, 48

Hence, option C is correct.

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5. The series is $2 + 4 = 6$, $4 + 6 = 10$, $6 + 10 = 16$, $10 + 16 = 26$, $16 + 26 = 42$, $26 + 42 = 68$



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Hence, option B is correct.

6. There are two series:

$$2(1 + 1^2) \quad 6(2 + 2^2) \quad 12(3 + 3^2) \quad 20(4 + 4^2) \quad 30(5 + 5^2) \quad 2(1 + 1^3) \quad 10(2 + 2^3) \quad 30(3 + 3^3) \quad 60(4 + 4^3)$$

Hence, next term is $5 + 5^3 = 130$

Hence, option C is correct.

7. The given series is 12 (1st natural number and 1st prime number) then 23 (2nd natural number and 2nd prime number) then 35 (3rd natural number and 3rd prime number) and so on.

Hence next term will be 717.

Hence option C is correct.

8. $6 \times 2 + 1 = 13$, $13 \times 2 + 2 = 28$,

$$28 \times 2 + 3 = 59, 59 \times 2 + 4 = 122$$

Hence, option C is correct.

9. $4 \times 3 = 12$, $12 \times 3 = 36$, $36 \times 3 = 108$, $108 \times 3 = 324$

Hence, option D is correct.

10.

Series Pattern	Given Series
8	8
$8 \times 0.5 = 4$	4
$4 \times 1.5 = 6$	6
$6 \times 2.5 = 15$	15
$15 \times 3.5 = 52.5$	52.5

$$52.5 \times 4.5 = 236.25 \quad \mathbf{236.25} \quad \checkmark$$

Hence, option (C) is correct.



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