

CHAPTER-5 | Arithmetic Progressions

QUIZ PART-07

1. The 17th term exceeds the 10th term by 7. Find the common difference.

- A. 1
B. 2
C. 3
D. 4 (B)

Explanation: Common difference is 1.

2. Which term of 3, 15, 27, 39,... is 132 more than the 54th term?

- A. 56th B. 55th
C. 60th D. 59th (A)

Explanation: The 56th term.

3. Difference between 100th terms of two A.P.s is 100. What about their 1000th terms?

- A. 100
B. 1000
C. 10000
D. 100000 (B)

Explanation: The difference is 1000.

4. How many three-digit numbers are divisible by 7?

- A. 142
B. 143
C. 144
D. 145 (B)

Explanation: 143 numbers.

5. How many multiples of 4 lie between 10 and 250?

- A. 60
B. 61
C. 62
D. 63 (B)

Explanation: 61 multiples.

6. When are the n th terms of 63, 65, 67,... and 3, 10, 17,... equal?

- A. 6
B. 7
C. 8
D. 9 (B)

Explanation: $n = 7$.

7. The 3rd term is 5, and the 7th term is 9. Common difference?

- A. 1
B. 2
C. 3
D. 4 (A)

Explanation: The difference is 1.

8. 12th term of 7, 14, 21,...?

- A. 80
B. 81
C. 82
D. 83 (B)

Explanation: The 12th term is 81.

9. Common difference of 5, 10, 15, 20,...?

- A. 5
B. 10
C. 15
D. 20 (A)

Explanation: Difference is 5.

10. How many terms of 4, 8, 12,... up to 100?

- A. 25
B. 26
C. 24
D. 27 (B)

Explanation: 26 terms.