



Class 10 Mathematics | Arithmetic Progressions

MCQ WORKSHEET • 15 questions • Choose one correct option • Suggested time: 25 minutes

1. The common difference of 7, 3, -1, -5, ... is:

A. -3 B. 4 C. 3 D. -4

2. The 15th term of 2, 5, 8, ... is:

A. 47 B. 44 C. 42 D. 41

3. An AP has $a=12$ and $d=-2$. Its eighth term is:

A. 0 B. -2 C. -4 D. 2

4. Which term of 5, 9, 13, ... is 81?

A. 20th B. 19th C. 18th D. 21st

5. The sum of the first 20 natural numbers is:

A. 190 B. 210 C. 200 D. 420

6. The sum of first 10 terms of 3, 7, 11, ... is:

A. 230 B. 210 C. 190 D. 200

7. If $a_5=18$ and $d=3$, the first term is:

A. 6 B. 15 C. 3 D. 9

8. If $a_4=11$ and $a_9=26$, the common difference is:

A. 3 B. 2 C. 15 D. 5

9. The sum of first n odd natural numbers is:

A. $2n^2$ B. $n(n+1)$ C. n^2 D. $n(n-1)/2$

10. An AP has first term 8 and tenth term 35. Its ten-term sum is:

A. 215 B. 175 C. 180 D. 430

11. Which list is NOT an AP?

A. 8,6,4,2 B. -3,-1,1,3 C. 2,4,8,16 D. 4,9,14,19

12. The middle term of the AP 4, 9, 14, 19, 24 is:

A. 14 B. 12 C. 9 D. 19

13. If $S_n=2n^2+3n$, the n th term is:

A. $4n+3$ B. $2n+3$ C. $4n+1$ D. $2n^2+1$

14. A student saves ₹20 in week 1 and ₹5 more each following week. Week 10 saving is:

A. ₹60 B. ₹70 C. ₹65 D. ₹75

15. In an AP of 21 terms, first+last=50. The middle term is:

A. 50 B. 25 C. 10.5 D. 21

ANSWER KEY — check after completing all 15 questions

1.D 2.B 3.B 4.A 5.B 6.B 7.A 8.A 9.C 10.A 11.C 12.A 13.C 14.C 15.B

Original exam-style practice • Reference notes: www.physics.guru/cbse-practice-papers/ • Not an official paper

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