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NCERT Mathematics Class 10 Exemplar Ch 5 Arithmetic Progressions Part 1

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EXERCISE 5.1

1. In an AP, if $d = -4$, $n = 7$, $a_n = 4$, then a is

- (A) 6 (B) 7
(C) 20 (D) 28

Answer: D

2. In an AP, if $a = 3.5$, $d = 0$, $n = 101$, then a_n will be

- (A) 0 (B) 3.5
(C) 103.5 (D) 104.5

Answer: B

3. The list of numbers $-10, -6, -2, 2, \dots$ is

- (A) an AP with $d = -16$ (B) an AP with $d = 4$
(C) an AP with $d = -4$ (D) not an AP

Answer: B

4. The 11th term of the AP: $-5, -\frac{5}{2}, 0, \frac{5}{2}, \dots$ is

- (A) -20 (B) 20
(C) -30 (D) 30

Answer: B

5. The first four terms of an AP, whose first term is -2 and the common difference is -2 , are

- (A) $-2, 0, 2, 4$ (B) $-2, 4, -8, 16$
(C) $-2, -4, -6, -8$ (D) $-2, -4, -8, -16$

Answer: C

6. The 21st term of the AP whose first two terms are -3 and 4 is

- (A) 17 (B) 137
(C) 143 (D) -143

Answer: B

7. If the 2nd term of an AP is 13 and the 5th term is 25, what is its 7th term?

(A) 30 (B) 33

(C) 37 (D) 38

Answer: B

8. Which term of the AP : 21, 42, 63, 84 ... is 210?

(A) 9th (B) 10th

(C) 11th (D) 12th

Answer: B

9. If the common difference of an AP is 5, then what is $a_{18} - a_{13}$?

(A) 5 (B) 20

(C) 25 (D) 30

Answer: C

10. What is the common difference of an AP in which $a_{18} - a_{14} = 32$?

(A) 8 (B) - 8

(C) - 4 (D) 4

Answer: A