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# AP and GP

**1.** In an Arithmetic Progression, if a = 28, d = -4, n = 7, then $a_n$ is:
**(A)** 4 **(B)** 5
**(C)** 3 **(D)** 7

**2.** If a = 10 and d = 10, then first four terms will be:
**(A)** 10, 30, 50, 60 **(B)** 10, 20, 30, 40
**(C)** 10, 15, 20, 25 **(D)** 10, 18, 20, 30

**3.** The first term and common difference for the A.P. 3, 1, -1, -3 is:
**(A)** 1 and 3 **(B)** -1 and 3
**(C)** 3 and -2 **(D)** 2 and 3

**4.** 30th term of the A.P: 10, 7, 4, …, is
**(A)** 97 **(B)** 77
**(C)** -77 **(D)** -87

**5.** 11th term of the A.P. -3, -1/2, 2 …. Is
**(A)** 28 **(B)** 22
**(C)** -38 **(D)** -48

**6.** The missing terms in AP: __, 13, __, 3 are:
**(A)** 11 and 9 **(B)** 17 and 9
**(C)** 18 and 8 **(D)** 18 and 9

**7.** Which term of the A.P. 3, 8, 13, 18, … is 78?
**(A)** 12th **(B)** 13th
**(C)** 15th **(D)** 16th

**8.** The 21st term of AP whose first two terms are -3 and 4 is:
**(A)** 17 **(B)** 137
**(C)** 143 **(D)** -143

**9.** If 17th term of an A.P. exceeds its 10th term by 7. The common difference is:
**(A)** 1 **(B)** 2
**(C)** 3 **(D)** 4

**10.** The number of multiples of 4 between 10 and 250 is:
**(A)** 50 **(B)** 40
**(C)** 60 **(D)** 30

**11.** 20th term from the last term of the A.P. 3, 8, 13, …, 253 is:
**(A)** 147 **(B)** 151
**(C)** 154 **(D)** 158

**12.** The sum of the first five multiples of 3 is:
**(A)** 45 **(B)** 55
**(C)** 65 **(D)** 75

**13.** The 10th term of the AP: 5, 8, 11, 14, … is
**(A)** 32 **(B)** 35
**(C)** 38 **(D)** 185

**14.** In an AP, if d = -4, n = 7, $a_n$ = 4, then a is
**(A)** 6 **(B)** 7
**(C)** 20 **(D)** 28

**15.** The list of numbers –10, –6, –2, 2,… is
**(A)** an AP with d = –16 **(B)** an AP with d = 4
**(C)** an AP with d = –4 **(D)** not an AP

**16.** If the 2nd term of an AP is 13 and the 5th term is 25, then its 7th term is
**(A)** 30 **(B)** 33
**(C)** 37 **(D)** 38

**17.** Which term of the AP: 21, 42, 63, 84,… is 210?
**(A)** 9th **(B)** 10th
**(C)** 11th **(D)** 12th

**18.** What is the common difference of an AP in which $a_{18} - a_{14} = 32$?
**(A)** 8 **(B)** -8
**(C)** -4 **(D)** 4


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**19.** The famous mathematician associated with finding the sum of the first 100 natural numbers is

**(A)** Pythagoras **(B)** Newton
**(C)** Gauss **(D)** Euclid

**20.** The sum of first 16 terms of the AP: 10, 6, 2,… is

**(A)** –320 **(B)** 320
**(C)** –352 **(D)** –400

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