Class X Mathematics Assignment

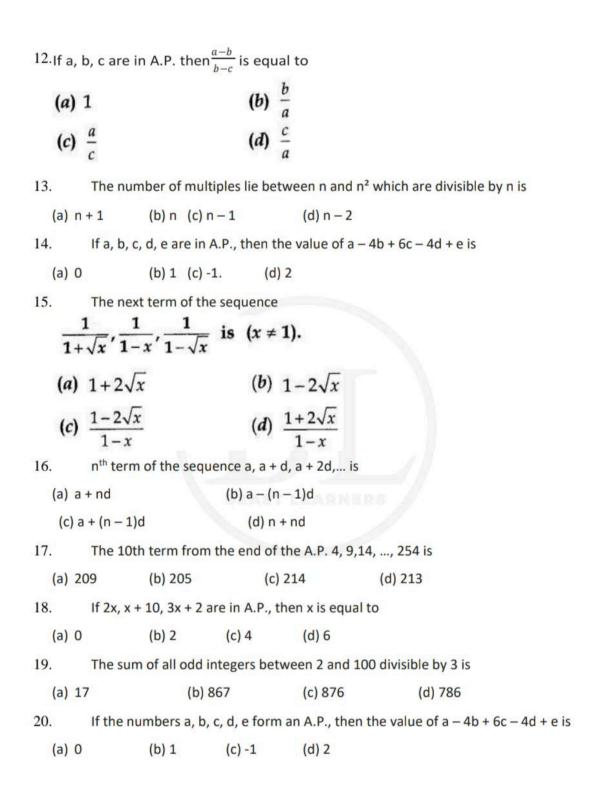
Topic: Arithmetic Progression

1. The n^{th} term of an A.P. is given by $a_n=3+4n$. The common difference is

(a) 7

(b) 3 (c) 4 (d) 1

2.	1. The sum of first n terms of an A.P. is given by $S_n = 3 + 4n$. The common difference is
	(a) -4 (b) 3 (c) 4 (d) -3
3.	2. If p, q, r and s are in A.P. then $r - q$ is
	(a) $s-p$ (b) $s-q$ (c) $s-r$ (d) none of these
4.	If the sum of three numbers in an A.P. is 9 and their product is 24, then numbers are
	(a) 2, 4, 6 (b) 1, 5, 3 (c) 2, 8, 4 (d) 2, 3, 4
5.	The (n – 1) th term of an A.P. is given by 7,12,17, 22, is
	(a) 5n + 2 (b) 5n + 3 (c) 5n - 5 (d) 5n - 3
6.	The n th term of an A.P. 5, 2, -1, -4, -7 is
	(a) 2n + 5 (b) 2n - 5 (c) 8 - 3n (d) 3n - 8
7.	The 10 th term from the end of the A.P5, -10, -15,, -1000 is
	(a) -955 (b) -945 (c) -950 (d) -965
8.	Find the sum of 12 terms of an A.P. whose nth term is given by $a_n = 3n + 4$
	(a) 262 (b) 272 (c) 282 (d) 292
9.	The sum of all two digit odd numbers is
	(a) 2575 (b) 2475 (c) 2524 (d) 2425
10).The sum of first n odd natural numbers is
	(a) $2n^2$ (b) $2n + 1$ (c) $2n - 1$ (d) n^2
11	L.If $(p + q)^{th}$ term of an A.P. is m and $(p - q)^{tn}$ term is n, then pth term is
	(a) mn (b) \sqrt{mn}
	(c) $\frac{1}{2}(m-n)$ (d) $\frac{1}{2}(m+n)$



21. If 7 times the 7th term of an A.P. is equal to 11 times its 11th term, then 18th term is

(a) 18

(b) 9

(c) 77

(d) 0