# Arithmetic Progressions : Worksheet -2

1. If $t_n = \frac{n}{n+1}$, then $t_4$ = _ _ _ _ _ _ _ _ _ _ _

2. a – 2 d , a – d , a , a + d , a + 2 d are in _ _ _ _ _ _ _ _ _ progression.

3. The n th term of an A.P is 4 n + 5. The sum of the n terms is _ _ _ _ _

4. The sum of n terms of an A.P is $2n^2 + 3n$. Its n th term is _ _ _ _ _ _

5. If a , b , c are in A.P., then b - a = $\frac{1}{2}$(.....)

6. The sum of n terms of the series ( a + 1 ) + ( a + 2 ) + ( a + 3 ) + .... is _ _ _ _ _

7. The sum of three numbers of an A.P. is 30. Its middle term = _ _ _ _

8. The mth term of A.P. is 'a' and its nth term is 'b'. Then its common difference is_ _

9. An A.P. contains 21 terms. If the 11 th term is 20, then sum of 21 terms = _ _ _ _

10. An A.P. $t_m = n; t_n = m;$ then $t_{m+n}$ = _ _ _ _ _ _ _ _ _ _ _