

X - Mathematics Assignment No.-08-Arithmetic Progression

Fill the Gap.

- (Q1) The n^{th} term of 1, 3, 5, ... is _____

(Q2) The 4th term of 2, 4, ... is _____

(Q3) The general term of a, a+ d , a+2 d , ... is _____

(Q4) The n^{th} term of $x, x+y, x+2y, \dots$ is _____

(Q5) The sum to n terms of 1, 2, 3, ... is _____

(Q6) If x, y, z are three numbers which are in A.P. then $y =$ _____

(Q7) The sum to n terms of AP a, a+ d , ... is _____

(Q8) If $t_n = 3n-2$, the series is _____

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(Q9) The 4th term of the sequence
 $a_n = n(n+2)$ is _____

(Q10) Is the series $1^2, 2^2, 3^2, 4^2, \dots$
 in AP _____

(Q11) Form a series with first term
 $a=5$ and C.d as 3 _____

(Q12) In $S_n = \frac{n}{2} [a+l]$, the meaning
 of l is _____

(Q13) What is most important to
 form a_n A.P. _____

(Q14) 12th term of 5, 8, ... is _____

(Q15) $S_n - S_{n-1} =$ _____

ANSWERS:-

(Q1) $t_n = 2n-1$	(Q5) $S_n = \frac{n(n+1)}{2}$	(Q9) 24
(Q2) $t_4 = 8$	(Q6) $y = \frac{n+z}{2}$	(Q10) No
(Q3) $t_n = a + (n-1)d$	(Q7) $S_n = \frac{n}{2} [2a + (n-1)d]$	(Q11) 5, 8, 11, ...
(Q4) $t_n = n-y+ry$	(Q8) 1, 4, 7, ...	(Q12) Last term
		(Q13) C.d must be same
		(Q14) 38
		(Q15) t_n