Arithmetic Progressions

1] Sum of all first n terms of even natural number is						
	A] n(n+1)	B] n(n + 2)	C] n ²	D] 2n ²		
2] If a, b a	nd c are arithmetic	progression, then $\frac{b-a}{c-b}$	is equal to:			
	A] $\frac{b}{a}$	в] 0	C] 1	D] 2a		
	u					
3] 13 th ter	m of the A P x – 7, › A] x + 73	< – 2, x +3, is B] x + 63	C] x + 83	D] x + 53		
		_]	-]	-1		
4] If the fi			rence is 2 then its 20th term	n is		
	A] 39	B] 41 C] 42	D] 43			
5] In an A P if S ₅ = 35 and S ₄ = 22, then the 5 th term is:						
	A] 35	B] 10	C] 13	D] 22		
6] The nth term of 3, 7, 11, 15,is :						
	A] 4n – 1		C] 4n + 3	D] 3n + 4		
7] In a seg	uence, if $a_{n+1} = 4$	$n + 5$, then a_n is :				
	A] 4n – 5		C] 4n + 1	D] 4n + 5		
8] In an Δr	ithmetic Sequence	if $a_1 = 8$ and $a = 2$ the	en its common difference is:			
oj in un / i	A] 6	B] 4	C] 2	D] 10		
01 In an A	D the common diff	range is 2 first torm is	a 1 than its tanth tarm is			
9] 111 dil A	A] 27	B] 29	s 1, then its tenth term is: C] 30	D] 28		
10] In an A	Arithmetic Progress A] 3	ion a_{n+5} = 35 and a_{n+5} B] 2	1 = 23, then common differe C] 3n	nce= D] 2n		
	-	-	-	-]		
11] In an A	Arithmetic Progress A] 1	ion a_n = 3n – 1, then c B] 2	ommon difference is: C] 3	D] 4		
	A] I	0j 2	C] 3	0]4		
-		•	ond square, 3 dots in the thir	d square and so on. Then		
The to	atal number of squa A] 55	B] 11	a total of 55 dots is equal to: C] 9	D] 10		
	-	-	-			
13] Amon		thmetic Progression is: Bl 12 10 14	C] 35, 30, 25,	13 19		
	A] 1, 4, 0,	0] 12, 10, 14,	c] 33, 30, 23,	0]0,13,13,		
14] In an A	-	ion, the correct relatio				
	A] $u_{n-5} = u_{n-4} + $	u Bj $u_{n-5} = u_{n-6}$	+ d C] $a_{n-5} = a_n + d$	D} $a_{n-5} = a_n - d$		
15] The sum of an Arithmetic Series with 15 terms is 180. Then the 8 th term is						
	A] 8	B] 12	C] 15	D] 18		
16] If 2x + 1, 4x, 13 – x are in Arithmetic Progression, then x is equal to:						
	A] 2	B] 3	C] 4	D] 5		

17] A person continuously places 3 marbles in first box, 5 in second box, 7 in third box etc. the number of Marbles that he places in sixteenth box is:						
A] 66	B] 33	C] 31	D] 35			
18] In the first minute Geetha climbs 15 steps of a building. After that she climbs 3 steps less than in the Previous minute. The total number of steps climbed by Geetha in 5 minutes is:						
A] 75	B] 105	C] 45	D] 50			
19] In a progression, if $a_n = 2n - 1$, the fourth term is:						
A] 23	B] 9	C] 5	D] 7			
20] If 1 + 2 + 3 + + n = 78, then the value of n is:						
A] 13	B] 12	C] 11	D] 16			