DAY	ASSIGNMENT (GEN. ABILITY). DATE 28-5	3-24
Q.	The Sum of three consentive prime numbers is 287. Find the square of the middle term.	
-	DATA:	
	Sum of three consecutive prime numbers = 287	
	Three consentive prime numbers =? Square of its middle term =?	
	Square of 113 mily to com	
_	BOLUTION:	
0	Find Middle term (or no. close to it).	
25-2 - 1	= Sun of numbers = 287 Quantity of numbers 3	
	= 95.6 This, however, is not a prime no. so,	
•	Choose the reasts prime to '95.'	
	Prime Prime Prime 89 90 91 92 93 94 95 96 97	
	The state of the s	
	Herre, nearest frome 9s, 97 Middle prime na	
	Justipying the result, 89 + 97 + 101 = 287	
	287 = 287 (LHS = RHS)	
•	Now,	
	squire of Middle term,	
	= (97) ² = 9409	
•	- 1701 In	
	Three consecutive num are = 89,97,101.	
	Square of Middle team = 9409.	

V .	The Sum on two and box & 10 11-	
	The Sum of two numbers 4 18 and the product of these two numbers 4 56. Find	
	the numbers.	
-	DATA:	
	Two numbers when added = 18	
	Two numbers when multiplied = 56	
	These Numbers = ?	
	SOLUTION:	
•	Let there numbers be = x, y.	
	Egnating them:	
	xxy = 56 -> 0	
	80, y = 56 _> in	
	$x + y = 18 \rightarrow 2$	
•	14 67 14 (2)	
	x + y = 18 x + 55 = 18 (LCM)	
· ·	2 (LCM)	
	$\chi^2 + 56 = 18$	
	X 1 30 2 10	
Commission of the	$n^2 + 56 = 18n$	
•	22-182+56 = 0 (Quadratic Eq.)	
	The second secon	
	Factors Finding.	
	- Method: 1 2 56	
	2 28 2×2×2×7	
	14	
. v . v	1. 14	7.23
	2 7 7 17	
	Because 9 -ve sign in middle: -4, -14 Kide	1

DAY_	DATE	1-1191-11
•	- Method: 2 (Quadrate promula)	
av.	$x^2 - 18x + 56 = 0$ One meth	od is
	a b c onough	IUG-13
	: -b ± √b2-4ac, Put values	
and the second second	2a	
	$-18 \pm \sqrt{(18)^2 - 4(1)(56)}$	
	2(1)	
	-18 ± 1 321 -224 -> -18 ± 100	
	2 2	
	-18 + 10 , -18 - 10 2 2	
	-8 - 1 - 28 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	
	2	
	-4 , -44	
	$\chi^2 - 4\chi - 14\chi + 56$	
	2 (2-4) - 14 (2-4) = 0	
	(n-14)(2-4)=0	
	So, 2 on 14	
	Putting value of 'x' for (i)	
	MIN 그는 그는 그는 그 11	
	y = 56 = y = 56 = y = 14	
	on x=14	
	y = 56 = 1 y = 4	
	14	
	· Concluding,	A company of the control of the cont
	(x = 4, y = 14)	
	OR	
	7 10 - (y 14 , y = 4) Jan.	
	Justilying,	
3	$x + y = 18 \Rightarrow 4 + 14 \Rightarrow 18$	
	7xy = 56 => 4x 14 => 56 (L45 = R45)	
	W. Jan	