	Number system Date //
1>	Integer $\rightarrow -\infty$ 0 + ∞
	+ Ve integer = +1 + ∞ -ve integer = -1 - ∞ * * * * * * * * * * * * * * * * * * *
9)	
	Natural number > 1 ∞ Whole number > 0 ∞ * * * All natural numbers are whole numbers
	Even number > 0 2 4 6 8
	odd number > 1 3 5 7 9
	Consecutive even no > 2 2+2 2+4
4)	Peiwe number > 2 3 5 7 11 13 ∞ only one odd Peiwe even peiwe
	** Every Prince number has only two factors \rightarrow 1 & no. itself 8 2 = 1×2
	Composite number \Rightarrow 4 6 8 9 10 12 ∞ *** Composite number has were than two factors. EX 91 = $1 \times 13 \times 7$ 111 = $1 \times 5 \times 37$
5)	co-peince numbers are co-prime numbers only if their HCF = 1
	$6x 2 = 1 \times 2 \qquad 21 = 1 \times 7 \times 3 \qquad 9 = 1 \times 3 \times 3 \times 3 \times 3 \times 3 \times 5 \qquad 8 = 1 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 3 \times 3 \times 3 \times 3$
	$+cf = 1$ $+cf = 1 \times 3 = 3$ $+cf = 1$ $\therefore 2,3 = \checkmark$ $\therefore 21,90 = \times$ $9,8 = \checkmark$

	PAGE No.
	pivisibility test
	the state of the s
1)	2 , last digit of that number woust be zero or divisible by 2
	4 - last two digits of that number would be divisible by 4
	8 , last there digits of that number wust be divisible by 8
20	3 - sum of all digits of that number must be divisible by 3
	9 & 6um of all digits of that number wust be divisible by 9
3)	6 - number wust be divisible by 2 and 3
	4 (27) = 2 (1)
4)	5 - number noust have once 5 at it's unit place.
	10 - number must have a at it's unit place.
5)	11 -> sum of even - sum of odd - o de multiple of 11
	placed digits placed digits
	SCHOOL DEFENDENCE THE STATE OF
6)	12 -> Number voust be divisible by 3 & 4.
	Traction at a series of the se
7)	7, 13, 17, 19 = Disect divide that number

			PAGE NO DATE					
*	Number terms		mit part up alla	901.43	*			
	103 > Thousand => 100	+2	103> Thousand	> 100	1+3			
	10^5 Lakh $\Rightarrow 100$		10 ₆ > Millica	⇒ 1000				
	107 cenee > 100	0,00,00	10 ⁹ > Billicm	⇒1000°0	000,000			
		olar ala-sa	10 ¹²) Teinion	⇒1000,	000,000,000			

*	Assebeaic formulas	
	$a^2+b^2 = (a+b)^2-2ab$ or $(a-b)^2+2ab$	
	$a^2 - b^2 = (a+b)(a-b)$	
	$(a+b)^2 = a^2 + 2ab + b^2$	
	$(a-b)^3 = a^2 - 2ab + b^2$	SID-LOT YOU AD
	$a^3+b^3=(a+b)(a^2-ab+b^2)$	
	$a^3 - b^3 = (a - b) (a^2 + ab + b^2)$	
	$(a+b)^3 = a^3 + 3a^2b + 3ab^2 + b^3$	
	$(a-b)^3 = a^3 - 3a^2b + 3ab^2 - b^3$	

No	5quaee9	cubes	Feaction	pecimal	Peecentage
1	1	1	1/1	1 1 3	100%
2	4	8	42	0.50	50%
3	9	RF	43	0.33	33.33%
4	16	64	1/4	0-25	25%
5	35	125	1/5	0.20	20%
6	36	316	1/6	0.16	16.66 %
7	49	343	1/7	0.14	14.28 %
8	69	512	1/8	0.125	12.5%
9	81	729	1/9	0.11	11.11%
10	100	1000	1/10	0.10	10%
11	121	1331	1/11	0.09	9.09%
12	144	17-28	1/15	0.08	8.33%
13	169	2197	1/13	0.07	7.69%
14	196	2744	414	0.07	7.14%
15	335	3375	415	0.06	6.66%
16	256	4096	¥16	0.06	6.25%
17	289	4913	1/17	0.05	5.88%
18	324	5832	1/18	0.05	5.55%
19	361	6859	1/19	0.05	5.26%
20	400	8000	1/20	0.05	51.

Finding Square root and Cube root (Perfect numbers)

	unit dis	ai+ ⇒		7	,						DATE /	///
	unit dis	ait =				1						
	11		1	2	3	4	5	6	7	8	9	
	€9. €ca	ot ⇒	1,9	×	×	2,8	5	6,4	×	×	3,7	
	cube &	oot =	1	8	7	4	5	6	3	2	9	
	Peefect	-1	Jase	Boot						Peefe	t cube	Boot
- 1>	6241<	9							1) 3	05379	→9	
	79	7×	8 = 56							59		
2)	112365	»6										
									2) 9	12673		
	106	1	$0 \times 11 = 7$	10						97		
3)	16384<	*2							3) 3	14432	→ 8	
	128											
				76					6	8		
4)	24649	7							4) (52295	04-4	
	157	15×1	6= 240	0]	84		
0	1296	6										
- 5)	12965	4							5) 9	13939	31→1	
	36	3×4	1212						:	511		
6)	79524	2							6) 1	16970	83→7	
		0										
			3×29=	817					-	127		
7)	61009	3							F) 51	FIFFF	->3	
	244	26x	25 = 60	20					19	13		
8)	449445	2							8) 8	57375	5→5	
	212	31	×22 = 4	62					99	5		
0)	21025								0) /5	2875	-5	
3)	21025 -	75							3) 4	2013	, ,	
	145								3	5		