Chapter **No. 1** & 2

Operation on Numbers:

1.	The differ A	ence between the 973	place B	value and the face v 6973	alue C	of 6 in the numeral 5994	8569 D	973 is: none of these	
2.	The differ	ence between the	place B	value of 7 in the nu	mara	69758472 is:	D	none of these	
3.	The unit o	ligit in the product	t (784 B	$\frac{1\times618\times917\times463}{3}$	3) is: C	4	D	none of these	
4.	What is th	ne unit digit in 7 ¹⁰⁵ 1	? B	5	C	7	D	9	
5.	What is th	ne unit digit in (41 1	37) ⁷⁵ B	⁴ ? 3	С	7	D	9	
6.	$9\frac{3}{4} + 7\frac{2}{17}$	$7 - 9 \frac{1}{15} = ?$ $7 \frac{719}{1020}$	В	$9\frac{817}{1020}$	С	$9\frac{719}{1020}$	D	$7\frac{817}{1020}$	
7.	A	(x) × (1296 ÷ 36) = 420	= ? . B	460	С	500	D	450	
8.	768×768×76 768×768-76	$ \begin{array}{c} $	В	536	С	500	D	268	
9.			_		then t	_		per in place of * will be :	
	A	0	В	1	(C)	2	D	None of these	
10.	If the num	ber 97215 * 6 is co	omple B	etely divisible by 11, 2	then C	the smallest whole 1	num D	ber in place of * will be : 5	
11.	Which one	e of the following n 181560	umbe B	ers is completely div 331145	risible C	202860	D	203550	
12.	Which one	e of the following n 3572404	umbe B	ers is completely div 135792	risible C	e by 99? 913464	D	114345	
13. How many of the following numbers are completely divisible by 132 ? 264 , 396 , 462 , 792 , 968, 2178, 5184, 6336									
	A	4	В	5	С	6	D	7	
14.	476 ** 0 is	divisible by both 7 and 4	3 and B	11. The non – zero 7 and 5	digit:	s in the hundred's a 8 and 5	nd te D	en's places are respectively: None of these	
15.	If a and b a	are odd numbers, t a + b	hen v B	which of the following $a + b + 1$	ıg is e C	ven? ab	D	ab + 2	
16.	Which one	e of the following c 30976	anno B	t be the square of a r 75625	natur: C	al number? 28561	D	143642	
17.	What smal	llest number shoul 4	ld be a	added to 4456 so th	at the	sum is completely	divis D	sible by 6? 1	

18. Which nat	ural number is nea 9152	arest B	to 9217, which is co. 9240	mplet C	tely divisible by 88° 9064	? D	9184			
19. The larges	t 4 – digit number <mark>9944</mark>	exac B	tly divisible by 88 is 9768	s C	9988	D	8888			
20. The larges	t 5 – digit number 99921	exac	tly divisible by 91 is	s C	99981	D	99971			
21. On dividing a number by 68, we get 269 as quotient and 0 as remainder. On dividing the same number by 67, what will be the remainder?										
A	0	B	1	С	2	D	3			
22. On dividing a number by 56, we get 29 as remainder. On dividing the same number by 8, what will be the remainder?										
A	4	B	5	С	6	D	7			
23. The difference of two numbers is 1365. On dividing the larger number by the smaller, we get 6 as quotient and 15 as remainder. What is the smaller number?										
A	240	B	270	С	295	D	360			
	24. In a division sum, the remainder is 0. A student mistook the divisor by 12 instead of 21 and obtained 35 as quotient. What is the correct quotient?									
A	0	В	12	С	13	D	20			
25. The sum of the two numbers is 12 and their product is 35. What is the sum of the reciprocals of these numbers ?										
A	$\frac{12}{35}$	В	$\frac{1}{35}$	С	35 8	D	$\frac{7}{32}$			
26. The difference between a positive proper fraction and its reciprocal 9/20. The fraction is:										
A	3 5	В	$\frac{3}{10}$	C	<u>4</u> <u>5</u>	D	$\frac{5}{4}$			
27. The differ	ence of the squares	s of tv	vo consecutive even	integ	gers is divisible by v	which	of the following integers?			
A	3	B	4	С	6	D	7			
28. If n is a na A	tural number, then 6 only	(6n ²	+ 6n) is always div	risible C	by: 12 both	D	18 only			
	-					D	10 only			
29. What will A	be the remainder v	wnen B	(17) ²⁰⁰ is divisible 16	C C	1	D	2			
30. If x and y are positive integers such that $(3x + 7y)$ is a multiple of 11, then which of the following will										
ha dirriaih		rs suc	th that $(3x + 7y)$ is a	mult	iple of 11, then whi	ch of	the following will			
be divisib A	le by 11?		th that $(3x + 7y)$ is a $x + y + 4$			ch of	the following will $4x - 9y$			
A 31. A number	le by 11? $4x + 6y$ when divided succ	B cessiv	x + y + 4 rely by 4 and 5 leave	C es rem	9x + 4y nainders 1 and 4 res	D spect	(4x - 9y)			
A 31. A number	le by 11? $4x + 6y$ when divided succ	B cessiv	x + y + 4	C es rem	9x + 4y nainders 1 and 4 res	D spect	(4x - 9y)			
A 31. A number When it is A 32. A number	le by 11? 4x + 6y when divided successively divided 1, 2 when divided by 2	B cessiv led by B	x + y + 4 Trely by 4 and 5 leavers y 5 and 4, then the results y 5.	C es rem especi C	9x + 4y nainders 1 and 4 restive remainder will 3, 2	D spect be D	4x - 9y ively. 4, 1			
A 31. A number When it is A 32. A number	le by 11? 4x + 6y when divided successively divided 1, 2	B cessiv led by B	x + y + 4 rely by 4 and 5 leave y 5 and 4, then the re (2,3)	C es rem especi C	9x + 4y nainders 1 and 4 restive remainder will 3, 2	D spect be D	4x - 9y ively. 4, 1			
A 31. A number When it is A 32. A number the remai	le by 11? $4x + 6y$ when divided successively divided 1, 2 when divided by 2 ander will be:	B cessive ded by B cessive B	x + y + 4 rely by 4 and 5 leave y 5 and 4, then the re 2, 3 aves 75 as remainde	C es rem espect C er. Wh	9x + 4y nainders 1 and 4 restive remainder will 3, 2 en the same number	D spect be D	4x – 9y ively. 4, 1 livided by 37,			
A 31. A number When it is A 32. A number the remai A 33. The sum o	le by 11? $4x + 6y$ when divided successively divided 1, 2 when divided by 2 nder will be: 1 first 45 natural n	B cessiv ded by B c96 le B umbe	x + y + 4 rely by 4 and 5 leave y 5 and 4, then the re 2, 3 aves 75 as remainde 2 ers if: 1280	C es rem espect C er. Wh	9x + 4y nainders 1 and 4 restive remainder will 3, 2 en the same number	D spect be D er is o	4x - 9y ively. 4, 1 livided by 37,			

13. The sum of two numbers is 528 and their H. C. F. is 33. The number of pairs of numbers satisfying the										
above condi	_	В	6	С	8	D	12			
		Б	Ü	Ü	O	Б	12			
14. The product						•				
A	1	B	2	С	3	D	4			
15. Three number	ers are in the r	atio 3: 4: 5	and their I	L. C. M is 2400	Their H. C. F is	:				
A	40	В	80	С	120	D	200			
16. The number of number — pair lying between 40 and 100 with their H. C. F. as 15 is:										
A		В	4	С	5	D	6			
17. The H. C. F. and L. C. M. of two numbers are 84 and 21 respectively. If the ratio of the two number										
	the larger of t			iu 21 respecti	very. If the ratio	of the tw	o number			
A		В	48	C	84	D	108			
10 The greatest	noccible long	th which a	yan ha usad	to mossure or	vactly the length	nc 7m 2m	85cm, 12m 95cm is:			
A		in which t	25 cm	C	35 cm	15 7111, 3111 D	42 cm			
				3 liters and 71 rent quantitie		tures of m	ilk and water respectively.			
what bigges A		i measure B	7 litres	rent quantitie	31 litres	D	41 litres			
20. The maximum										
in such a wa		ident gets B	910	umber of pen C	s and same nur 1001	nber of pe D	enciis is: 1911			
	71	5	710	J	1001	2	1711			
_	-		-		-	-	with square tiles;			
all of the san		s the large	est size of the 21 cms	ie tile which c	ould be used fo 42 cms	r the purp D	none of these			
	1 101115			J	12 01110	2	none of these			
22. Let N be the greatest number that will divide 1305, 4665 and 6905, leaving the same remainder in each case.										
	the digits in N 4		5	C	6	D	8			
						D	0			
23. The smallest	fraction, whic	h each of	$\frac{6}{7}, \frac{5}{14}, \frac{10}{21}$ will	ll divide exact	ly is :					
A	30	В	$\frac{30}{98}$		$\frac{60}{147}$	D	50			
_	7		98	_	147		294			
24. The least nu	nber of five di	gits which	is exactly d	divisible by 12	, 15 and 18 is:					
A	10010	В	10015	С	10020	D	10080			
25. The greatest number of four digits which is exactly divisible by 15, 25,40 and 75 is:										
A		В	9400	C	9600	D	9800			
	7000	٥	7100		(2000)	2	7000			
26. The smallest	which when d	liminished	d by 7, is div	risible 12, 16, 1	18, 21 and 28 is	:				
A	1008	B	1015	С	1022	D	1032			
27. The least number, which when divide by 12, 15, 20 and 54 leaves in each case remainder of 8, is:										
			,,							
A	504	В	536	С	544	D	548			
28. The least multiple of 7, which leaves remainder of 4, when divided by 6, 9, 15 and 18 is:										
A	-	В	94	C C	184	D	364			
00 ml 1										
29. The least number, which when divided by 48, 60, 72, 108 and 140 leaves 38, 50, 62, 98 and 130 as a remainders respectively is:										
A		В	15110	С	15120	D	15210			

30. find the least multiple of 23 which when divide by 18,21 and 24 lkeaves the remainder 7,10 and 13 respectively:											
		Α	3002	B	3013	С	3024	D	3036		
31.	The least n	umber	which when div	<i>r</i> idec	l by 5, 6, 7 and 8 leav	es th	e remainder 3, but w	hen	divided by 9		
	leaves no	remair	nder, is:								
		Α	1677	B	1683	C	2523	D	3363		
32.					nd toll at intervals of	2, 4,	6, 8, 10 and 12 secor	ıds ı	repectively. In		
	30 minute	es, how	many times do	they	toll together?						
		A	4	В	10	C	15	D	16		
							1				
33.	Four differ	ent ele	ectronic devices	mak	te a beep after every	30 m	inutes, 1 hour, 1 ₂ -ho	our a	and 1 hour		
	45 minutes respectively. All the device beeped together at 12 noon. They will again beep together at:										
		Α	12 midnight	В	3 A. M.	C	6 A. M.	D	9 A. M.		
34.					ne same direction to				-		
	a round in 252 seconds, B in 308 seconds and C in 198 seconds , all starting at the same point.										
	After wha		-	_	at the starting point						
		A	26 min. 18 sec	В	42 min. 36 sec.	С	45 min.	D	46 min. 12 sec.		