

Name:					Rad Same
Grade : VI					
Subject : Ma	thematics				
	Cha	oter 2: V	Whole N	lumbers	
				C	
		I. Multiple	Choice C	Questions	\mathcal{T}
1. The product	of non-zero	whole numb	per and i	ts successor is a	Iways
a. an even nu					er d. divisible by 3
2. A whole num					racted from 25. The
	esulting numb				
a. 0		b.25		c. 50	d. 75
3. The whole nu	umber which h	nas no prec	decessor	is	
a. 1		b. 0		c. 2	d. 3
4. 77 + 23 = 23	+ 77 is an ex	ample of			
a. closure pr	operty			b. associative pr	roperty
c. commutat	ive property			d. distributive p	property
5. By using dot	(•) patterns,	which of t	he follov	ving numbers car	be arranged in all
the three wa	ays namely a l	ine, a t <mark>rian</mark>	igle and a	a rectangle?	
a. 9		b. 10		c. 11	d. 12
6. The predece	essor of 1 lakh	n is			
a.99000		b. 99999		с. 999999	d. 100001
7. The success	or of 1 million	is			
a. 2 million		b. 1000001	1	c. 100001	d. 10001
8. Which of th	e following is	n <mark>ot</mark> zero?			
a. 0 x 0		b. <mark>2</mark>		C. $\frac{(8-8)}{2}$	d. 2 + 0
9. The product	of two whole	numbers i	s always	а	
a. natural nu				b. even number	
c. odd numbe	er			d. none of these)
	st number wh or of an odd i			he product of the pro	ne predecessor
a. 6		b. 4		c. 16	d. 32
1. an even number	2. 50	3.0	4. comn	nutative propert	
6. 99999	7. 1000001	8.2+0		of these	10. 4



	. Multiple <i>C</i> hoic	e Questions]
	\mathbf{D}		
1. Number of whole numbers			
	. 30	c. 29	d. 28
2. The product of successor a	-		
	. 998000	c. 989000	d. 1998
3. Which of the following is no	ot true?		
a. $(7 + 8) + 9 = 7 + (8 + 9)$		b. (7 x 8) x 9 = 7 x	
c. 7 + 8 x 9 = (7 + 8) x (7 + 9	9)	d. 7 x (8 +9) = (7 x	(8) + (7 x 9)
4. Which of the following stat	tements is not t	true?	
a. Both addition and multipl	ication are asso	ociative for whole nun	nbers
b. Zero is the identity for r	multiplication of	f whole numbers	
c. Addition and multiplication	on both are com	nmutative for whole n	umbers.
d. Multiplication of distribu			S.
5. Which of the following stat	tement <mark>s is no</mark> t t	true?	
a. 0 + 0 = 0 b.	. 0 - 0 = 0	$c. 0 \times 0 = 0$	d. $0 \div 0 = 0$
6. Which is the successor of 1	1099999?		
a. 1100001 b.	. 1100000	c. 1099998	d. 9999999
7. Which is the predecessor of	of 208090?		
a. 208089 b.	. 208091	c. 218090	d. 198090
8. What is the value of 8 x 17	69 x 125:		
a. 1769000 b.	. 1768000	c. 1768010	d. 1769010
9. What is the value of 81265	x 169 – 81265	x 69:	
a. 81265000 b.	. zero	c. 8126500	d. 8026500
10. Which of the following is the	<mark>he</mark> additive iden	ntity <mark>in</mark> the set of who	ole numbers?
a. 1 b.	. <mark>z</mark> ero	c <mark>-1</mark>	d. any number
11. The school canteen charges			lay. How much
money will be charged in 5 o	d <mark>a</mark> ys on these t	hings?	
a.₹125 b.	.₹25	c.₹ 75	d. ₹ 100
12. The successor of the small	lest counting nu	Imber is :	
a. 0 Ob.	.1	c. 2	d. 3
13. The successor of the larges		eris:n Oc	rool
a. 98 b.	. 99	c. 100	d. 101
14. When any counting number	is multiplied by	y 0, the product is:	
a. the counting number b.	. 1	c. 0	d. none of these
itself			



15. When N is divided by D, Q and R, then they are connected by the relation (D= Divisor, N = Number, Q = Quotient and R= Remainder):

a. N = D X Q + Rb. D = Q X N + Rc. Q = N X D + Rd. N = D X Q - R

	1.c	2.b	3.c	4.b	5.d			
	6.b	7.a	8.a	9.c	10.b			
	11.a	12.c	13.c	14.c	15.a			
	K			C	0			
		III. Mu	ultiple Choice Qu	estions	0			
1. Th	e successor of 9	9 is.						
a. 99		b. 98	c. 100		d.none of these			
2. T	he predecessor o	of 100 is						
a. 10	1	b. 100	c. 99		d.none of these			
3. T	he successor of 2	27 is						
a. 26		b. 25	c. 24		d. 28			
4. T	he predecessor o	of 36 is						
a. 32		b. 35	c. 33		d. 37			
5. The natural number that has no predecessor in natural number is								
a. 1		b. 10	c. 100		d. 1000			
6. T	he difference be	tween the succes	ssor of a number	and the numbe	er itself is			
a. 0		b1	c. 1		d.none of these			
7. T	he difference be	tween the predeo	cessor of a numb	per and the num	ber itself is			
a. 1		b1	c. 2		d2			
8. T	he difference be	tween the succes	ssor and the pre	decessor of a n	umber is			
a. 1		b. 2	c1		d2			
9. T	o find the predeo	cessor of a n <mark>um</mark> be	er, we have to s <mark>u</mark>	ubtract from th	e number itself.			
a. 1		b. 2	c. 3		d. 4			
10. T	o Find the succe	ssor of a nu <mark>mb</mark> er	, we have to add	<mark>l to the number</mark>	itself			
a. 4		b. 3	c. 2		d. 1			
11. T	he smallest whole	e number is						
a. 0	677	b. 1	c1	S	d.none of these			
12. W	12. Which of the following statements is true?							
	a. All natural numbers are also whole numbers							
		nbers are also na						
		mallest whole nur						
	d. The greatest	t whole number is	100.					

3

Created by Pinkz

		Real Burnetine E
13. Which of the following is true?		
a. 210 > 201 b. 210 < 201	c. 210 = 201	d.none of these
14. Which of the following statements is tru	e?	
a. 1 is the smallest natural number	b. 50 is the pr	redecessor or 49
c. 1 is the smallest whole number.	d. 599 is the s	successor of 600.
15. Which of the following statements is tru	e?	
a. The whole number 0 has no predece	essor in whole numbers.	
b. There are 10 whole numbers betwee	en 11 to 21.	
c. The successor of a two digit numbe		
d. The predecessor of a two digit num		git number.
16. How many natural numbers are there bet		
a. 6 b. 7	c. 8	d. 9
17. Find 27 ÷ (9÷3).		
a. 3 b. 6	c. 9	d. 27
18. Find (24 ÷ 4) + 2		
a. 1 b. 3	c. 4	d. 2
19. Which of the following will not represent		2-2
a. 0 + 1 b. 0 x 0	C. $\frac{0}{2}$	d. $\frac{2-2}{2}$
20.1+0=		
a. 1 b. 0	c. 2	d. not defined.
21. Whole numbers are closed under addition	n and multiplication. (his property is know
as		
a. Closure property	inligation	
b. Commutativity of addition and multiple		
 c. associativity of addition and multipl d. distributive of multiplication over a 		
22.'3 + 5 = 5 + 3'	durtion.	
The above is known as		
a. closure property	b. commutativity	ofaddition
c. commutativity of multiplication.	d. none of these	
$23.' 3 \times 5 = 5 \times 3'$		
The above is known as		
a. closure property	b. commutativity	of addition
c. commutativity of multiplication.	d. none of these	$\boldsymbol{\Omega}$
24.'(1 + 2) + 3 = 1 + (2 + 3)'	anon Oc	nooi
The above is knows as		
a. commutativity of addition	b. associativity	ofaddition
c. commutativity of multiplication	d. associativity	of multiplication.
A	C	costod by Dinka

Created by Pinkz



		Class Escaveliar 8
25. '(2 + 3) X 4 = 2 X (3 X 4)'		
The above is knows as		
a. commutativity of addition	b. associativity of add	lition
c. commutativity of multiplication	d. associativity of mult	iplication
26. ' 2 x (3 + 4) = (2 x 3) + (2 x 4)'		
The above is knows as		
a. distributivity of multiplication over ad	ddition	
b. associativity of addition		
c. associativity of multiplication		
d. none of these		
27. I purchased 10 litres of milk in the morni	ng and <mark>5 litre</mark> s of milk in tl	ne evening. If
the milk costs ₹ 30 per litre, how much mor	ney will I have to pay to the	milkman?
a. ₹ 450 b. ₹ 300	c. ₹150 d	.none of these
28. Which of the following is true?		
a. the number 2 can be arranged as a lin	le.	
b. The number 2 can be arranged as a so	quare	
c. The number 2 can be arranged as a tr	iangle	
d. The number 2 can be arranged as a re	ectangle	
29. The number 5 can be arranged as a		
a. line b. rectangle	c. square d	. triangle
30. The number 5 cannot be shown as a		
a. square b.rectangle	c. line d	. triangle
31. The number 10 cannot be shown as a		
a. square b. rectangle	c. line d	. triangle
32. Which of the following numbers can be sho	own as square?	
a. 11 b. 12	c. 13 d. 16	D
33. First triangular number is		
a. 3 b. 6	c. 10 d. 1	3
34. Which of the following numbe <mark>rs</mark> cannot be	shown by two rectangles?	
a. 12 b. 16	c. 18 d. 1	5
35. Which of the following numbe <mark>rs</mark> is not a tr	iangula <mark>r number?</mark>	
a. 3 b. 6	c. 10 d. 9	
36. Which of the following numbers cannot be	arranged as a rectangle?	0
a. 4 b. 6	c. 8 d. 7	
Jen Jenen	mai eau	<i>in</i>

1. c	2. c	3. d	4. b	5. a	6. C	7. a	8. b	9. a
10. d	11. a	12. а	13. а	14. a	15. a	16. c	17. c	18. b
19. a	20. d	21. а	22. b	23. с	24. b	25. d	26. a	27. а
28. a	29. a	30. a	31. a	32. d	33. а	34. d	35. d	36. d
				5 Created by Pinkz				

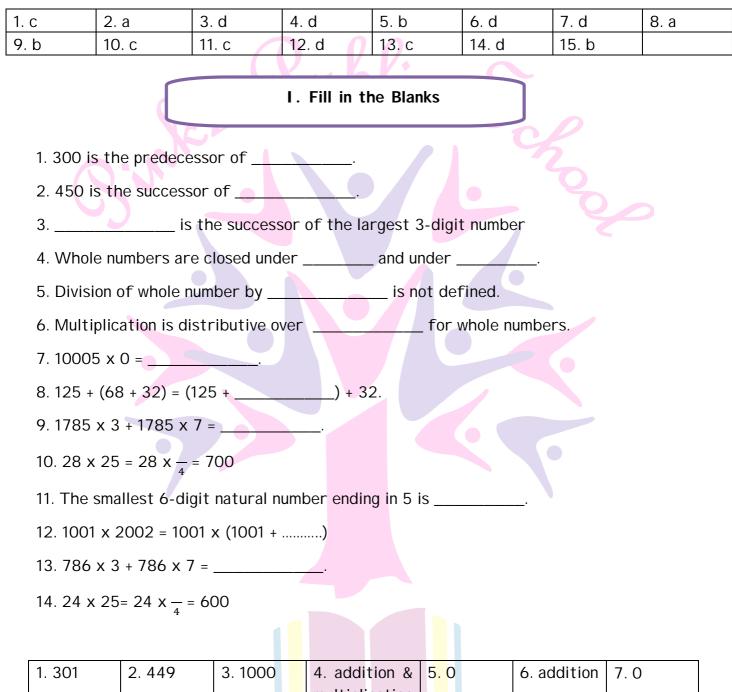


IV. **Multiple Choice Questions** 1. The product of the place values of two 2' s in 4,28,721 is a. 4 b. 40,000 c. 4, 00, 000 d. 4, 00, 00, 000 2. The face value of 4 in 8,92,47,605 is d. 8, 924 a. 4 b. 40, 000 c. 47 605 3. The product of the place value of two 5 's in 6,53,250 is b. 25, 000 a. 25 c. 2, 50, 000 d. 25, 00, 000 4. If I is added to the greatest 7-digit number, it will be equal to a. 10 thousand d. 1 crore b. 1 lakh c. 10 lakh 5. The difference of the smallest three digit number and the largest two digit number is a. 100 c. 10 d. 99 b. 1 6. When rounded off to nearest thousands, the number 85, 642 is a. 85, 600 b. 85,700 c. 85, 000 d. 86, 000 7. The greatest number which on rounding off to nearest thousands gives 5, 000, is a. 5,001 b. 5,559 c. 5,999 d. 5,499 8. The smallest number which when rounded off to nearest hundred as 600, is c. 604 a. 550 b. 595 d. 599 9. The difference between the greatest and smallest numbers which when rounded off a number to the nearest hundred as 6, 700 is a. 100 b. 99 c. 98 d. 101 10. How many 8-digit numbers are there? a. 9, 99, 99,999 b. 8, 99, 99, 999 c. 9,00,00,000 d. none of these 11. In Indian system of Numeration, the number 58695376 is written as a. 58, 69, 53, 76 b. 58, 695, 376 c. 5, 86, 95, 376 d. 586, 95,376 12. The largest 4-digit number, using any one digit twice, from digits 5, 9, 2 and 6 is a. 9652 b. 9562 c. 9659 d. 9965 13. 3 x 10,000 + 7 x 1, 000 + 9 x 100 + 0 x 10 + 4 is the same as b. 37,940 a. 3,794 c. 37,904 d. 3, 79, 409 14. Which of the following numbers in Roman numerals is incorrect? b. LXX c. LX a. LXXX d. LLX 15. The expanded form of the number 9578 is a. 9 X 10, 000 + 5 x 1, 000 + 7 X 10 + 8 X 1 b. 9 X 1, 000 + 5 X 100 + 7 X 10 + 8 X 1



c. 9 X 1, 000 + 57 X 10 + 8 X 1

d. 9 X 100 + 5 X 100 + 7 X 10 + 8 X 1.



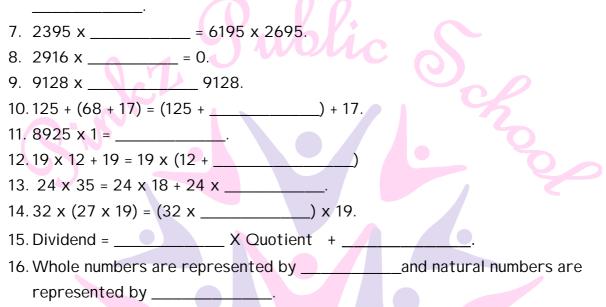
8. 68	9. 17850	10. 100	11. 100005	1 <mark>2.</mark> 1001	13. 7860	14. 100	
			multiplication				
1. 301	Z. 449	3. 1000	4. audition &	5. 0	0. auurtion	7.0	

- II. Fill in the Blanks
- 1. The smallest whole number is ______.
- 2. Successor of 106159 is ______.
- 3. 400 is the predecessor of _____



- 4. If 0 is subtracted from a whole number then the result is the _____itself.
- 5. The smallest 6 digit natural number ending in 5 is ______.





- 17. ______is the additive identity of the whole numbers.
- 18. Product of even number is always
- 19. Natural number 1 has no

1. 0	2.	3. 401	4. number	5. 100005	6. additional,	7. 6195
	106160				multiplication	
8.0	9.1	10. 68	11.8925	12.1	13.17	14. 27
15. Divisor,	16. W,N	17. zero	18. Even	19.		
Remainder				Predecessor		

I. Match the following

a. 127 + 73 = 73 + 127	i. Associative property of multiplication
b. (15 x 10) is a whole number	ii. Commutative property of multiplication
c. 128 x 20 = 20 X 128	iii. Distributive property of multiplication over
	addition
d. 64 X (16 X 25) = (64 X 16) X 25	iv. Commutative property of addition
e. 17 X (20 + 5) = 17 X 20 + 17 X 5	v. Closure property of multiplication

a. iv 2. v 3. ii 4. i	5. iii
-----------------------	--------



II. Match the following

1. Division Algorithm is	a. None
2. Number of whole numbers between 0 and 1 aer	b. 0 and 1
3. Whole number satisfying a x a = a is	c. Repeated subtracted
4. Division by 0 is	d. Dividend = divisor x quotient + remainder
5. Division also means	e. Not defined



I. True or False

- 1. Successor of 1- digit number is always a one -digit number.
- 2. Successor of 3-digit number is always 3-digit number.
- 3. Predecessor of a 2-digit number is always a 2- digit number
- 4. 716 X 3 + 716 X 7 = 7160
- 5. 999999 is the largest whole number.
- 6. 17 X (5 + 3) = 17 X 5 + 17 X 3
- 7. 1 has no predecessor in the whole numbers
- 8. 3996 is a successor of 3995
- 9. Every whole numbers is except zero the successor of another whole number.
- 10. Sum of two whole numbers is always less than their product.
- 11. There is a whole number which when added to a whole number, gives the second whole number.
- 12. If a whole number is divided by another whole number which is greater than the first one, then the quotient is not equal to zero.
- 13. If the sum of two distinct whole numbers is odd, then their difference also must be odd.

1. False	2. False	3. False	4. True	5. False	6. True	7. False
8. True	9. True	10. False	11. True	12. False	13. True	0
) onl.	Jono	nalia	on. O)cho	

Red Bundler School

II. True or False

- 1. Every whole number has its successor.
- 2. Between any two natural numbers, there is one natural number.
- 3. The smallest 4-digit number is the successor of the largest 3-digits number.
- 4. Of the given two natural number, the one having more digits is greater.
- 5. Natural numbers are closed under addition.
- 6. Natural number are not closed under multiplication.
- 7. Natural numbers are closed under subtraction.
- 8. Addition is commutative for natural numbers.
- 9. 1 is the identity for addition of whole numbers.
- 10.1 is the identity for multiplication of whole numbers.
- 11. There is a whole number which when added to a whole number give the number itself.
- 12. There is a natural number which when added to a natural number gives the number itself.
- 13. Any non-zero whole number divided by itself gives the quotient 1.
- 14. The product of two whole numbers need not be a whole number.
- 15. A whole number divided by another whole number greater than 1 never give the quotient equal to the former.
- 16. The natural number 1 has no predecessor.
- 17. If a and b are whole numbers and a < b, then a + 1 < b + 1.
- 18. Every whole number has its predecessor.
- 19. $10 \div (5 \times 2) = (10 \times 5) \times (10 \div 2)$.
- $20.(20 \div 5) + 2 = (20 + 2) + 5.$

1. True	2. False	3. Tru <mark>e</mark>	4. True	5. <mark>Tru</mark> e	6. False	7. False
8. True	9. False	10. Tr <mark>ue</mark>	11. True	12. False	13. True	14. False
15. True	16. True	17. Tru <mark>e</mark>	18. False	19. False	20. True	

Next Generation School



I. Very Short Answer Type Questions

- Write the two immediate predecessors of 2945. Given number is 2945
 Immediate predecessors are 2944 and 2943.
- 2. Write the three immediate successors of 3956 Given number is 3956

So, three immediate successors of 3956 are 3957, 3958, 3959.

How many natural numbers are there between 60 and 72?
 Given number is 60 and 72.
 Hence, natural numbers between 60 and 72

= (b-a) -1 = 72 - 60 -1 = 11

- 4. Find the sum by suitable rearrangement 47 + 953 + 6437.
 We have, 47 + 953 + 6437 = (47 + 953) + 6437
 = 1000 + 6437 = 7437
- Find the product by suitable rearrangement 2 X 1768 X 50.
 We have, 2 X 1768 X 50 = (2 X 50) X 1768 = 100 X 1768 = 176800
- 6. Find the value of 92165 X 179 92168 X 79 We have, 92165 X 179 – 92165 X 79

= 92165 (179 - 79)

(taking 92165 as common term)

= 92165 X 100

= 9216500.

- 7. What is the additive identity of 498?
 We know that, additive identity of any whole number is 0. So, additive identity of 498 is 0. i.e. 0 + 498 = 498
- What is the multiplicative identity of 539?
 We know that , multiplicative identity of any whole number is 1. So, multiplicative of 539 is 1.

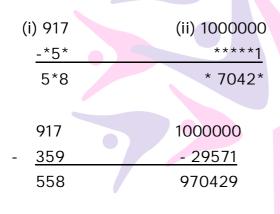
i.e. 539 X 1 = 539

9. Can you divide 0 by 219? I f yes, then what is the answer?
Yes, we can divide 0 by 219 and answer is 0.
i.e. 0 ÷ 219 = 0



II. Very Short Answer Type Questions

- 1. State the property used in 29 + (14 + 16) = (29 + 14) + 16. Associativity.
- 2. Does 15 ÷ 0 represent zero? No.
- 3. Name a four digit number whose predecessor is 3 digit number.1000
- 4. Write one pair of numbers whose quotient is 4.
 12 and 3 (as 12÷ 3 = 4)
- 5. Replace each by the correct digit in each of the following:



III. Very Short Answer Type Questions

1. Are all natural numbers also whole numbers? Are all whole numbers also natural numbers?

Yes, every natural number is a whole numbers, but all whole numbers are not natural numbers. For example, 0 is a whole number which is not a natural number.

- Write the next three whole numbers after 50, 999.
 51, 000, 51,001, 51, 002.
- 3. Write the predecessor of:(i) 27 (ii) 10, 000



(i) Predecessor of 27 = (27-1) = 26

(ii) Predecessor of 10,000 = (10, 000 -1) = 9,999

- 4. Write the successor of :
 - (i) 10, 00, 909 (ii) 70, 39, 999
 - (i) Successor of 10, 00, 909 = (10, 00, 909 + 1) = 10, 00, 910
 - (ii) Successor of 70, 39, 999 = (70, 39, 999 + 1) = 70, 40, 000.
- 5. Give arguments in support of the statement that there does not exist the largest natural number.

There is no largest natural number because every natural number has its successor.

- 6. The product of two whole numbers is zero. What do you conclude? If the product of two numbers is zero it means at least one of them is zero.
- 7. If the product of two whole numbers is 1, can we say that one or both of them will be 1? Justify through examples. Yes, both the numbers will be 1 as the product of the whole numbers is 1.
- 8. Which is the smallest whole number? Smallest whole number is 0.
- 9. How many whole numbers are there between 32 and 53? There are 20 whole numbers between 32 and 53.
- 10. How many whole numbers are there between 1, 032 and 1, 209. There are 176 whole numbers between 1, 032 and 1, 209.

I. Short Answer Type Questions

1. Write the predecessor of the following:

a. 96 b. 9998

We know that, predecessor is one less than the given whole number.

- a. Predecessor of 96 -1 = 95
- b. Predecessor of 9998= 9998-1 = 9997
- 2. Determine the sum of the four numbers as given below: m Ochoo
 - a. Successor of 32
 - b. Predecessor of 49
 - c. Predecessor of the predecessor of 56
 - d. Successor of the successor of 67



- a. Successor of 32 = 32 + 1 = 33
- b. Predecessor of 49 = 49 -1 = 48
- c. Predecessor of 56 is 65

So, predecessor of the predecessor of

56 = 55 - 1 = 54

d. Successor of 67 is 68

So, Successor of the successor of 67 = 68 + 1 = 69

Hence, the sum of four numbers

33 + 48 + 54 + 69 = 204

3. Write the successor of the following

a. 299 b. 2923

We know that, successor is one more than the given whole number.

- a. Successor of 299 = 299 + 1 = 300
- b. Successor of 2923 = 2923 + 1 = 2924
- 4. In each of the following pairs of numbers, state which whole number is to the left of the other on the number line. Use appropriate symbol
 - (> or <).

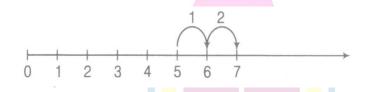
a. 497, 495 b. 3059, 3096

We know that, the number which lies to the right of other is a greater number.

a. 497 lies to the right of 495, so, 497 > 495

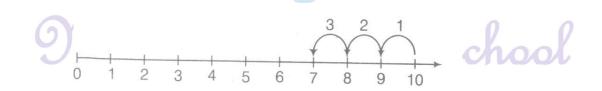
- b. 3059 lies to the 3096, so, 3059 < 3096
- 5. Find 5 + 2 on the number line.

We start from 5, make 2 jumps to the right, we reach at 7.



So, 5 + 2 = 7

6. Find 10- 3 on the number line We start from 10, make 3 jumps to the left, we reach at 7.

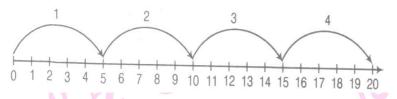


So, 10-3 = 7



7. Find 5 X 4 on the number line.

We start from 0, move 5 units at a time to the right, make 4 such moves. We reach at 20.



So, 5 X 4 = 20.

8. Find the product of the largest three-digit number with the smallest four-digit number.

```
Largest 3- digit number = 999
```

And smallest 4- digit number = 1000

∴ Product = 999 X 1000 = 999000

9. There are two whole numbers, which when multiplied by itself gives the same number. What are they?

If we multiply 0 by itself, it gives same number

i.e. $0 \times 0 = 0$, and similarly, $1 \times 1 = 1$.

• The required whole number are 0 and 1.

10. Write the following numbers as directed using dots.

a. 16 as a square b. 26 as a rectangle

16→ 26→

11. Find the whole number n, when

2n-6 = 0?

We have 2n- 6 = 0

$$2n = 6 \implies n = \frac{6}{2} = 3$$

12. Find the value of 968 X 73 + 968 X 27?

We have, 968 X 73 + 968 X 27)

- = 968 (73 + 27) [taking 968 as common term]
- = 968 X 100 = 96800

ion School

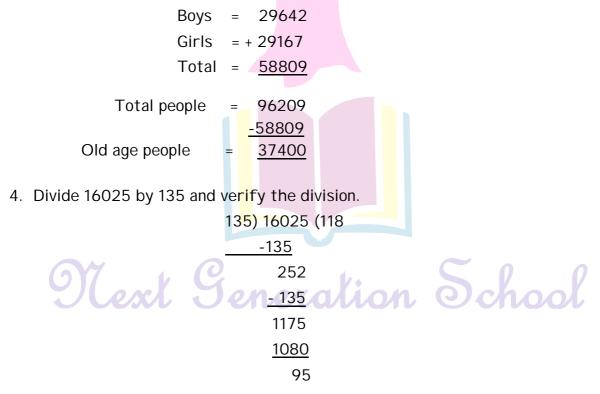


II. Short Answer Type Questions - I

- 1. Taking a = 7, b = 4, c = 15, verify: a x (b + c) = a x b + a x c. LHS = a X (b + c) = 7 x (4 + 15) = 7 x 19 = 133 RHS = a x b + a x c = 7 x 4 + 7x 15 = 28 + 105 = 133 LHS = RHS Hence, a x (b + c) = a x b + a x c. 2. Find the value of 24579 x 93 + 7 x 24579 using sui
- 2. Find the value of 24579 x 93 + 7 x 24579 using suitable property. 24579 x 93 + 7 x 24579

= 24579 x 93 + 24579 x 7 = 24579 x (93 + 7) = 24579 x 100 = 2457900.

3. The number of people in a game is 96209. If number of boys are 29642 and that of girls are 29167, then determine the number of old age people?





Dividend = Divisor X Quotient + Remainder

= 135 X 118 + 95

= 15930 + 95

Dividend = 16025

5. A builder constructed 690 hours at the rate of ₹ 5, 25, 175 house. What is total construction cost?

= 525175 $\frac{X \ 690}{00000}$ $4726575 \ X$ $3151050 \ XX$ 362370750 Girls = + 29167 Total = 58809 Total people = 96209 = -58809Old age people 37400 Total construction cost = 525175 \ x \ 690 = ₹ 36, 23, 70, 750.

6. Find the product using distributive property:
a. 728 X 101
b. 824 X 25

b. 824 X 25 = 824 (20 + 5) = 824 X 20 + 824 X 5 = 16480 + 4120

= 20600.

- Find the value of 887 X 10 X 461 8870 using suitable property.
 887 X 10 X 461 361 X 8870
 - = 8870 X 461-361 X 8870 = 8870(461-361)

= 887000.



II. Short Answer Type Questions - II

 A loading tempo carry 482 boxes of biscuits weighing 15 kg each where as a van carry 518 boxes each of the same weight. Find the total weight that can be caused by both the vehicles.

The total weight carried by loading tempo

= No. of boxes X weight of biscuits in each box

The Total weight carried by van

- = no. of boxes in van X weight of biscuits in each box
- = 518 X 15 = 7, 770 kg

Hence total weight of both the vehicles

= Total weight carried by loading tempo

+ Total weight carried by van

- = 15, 000kg
- 2. Write down the next three consecutive whole numbers starting from 4009998 Since, number = 4009998

```
Then, 1^{st} consecutive number = 4009998 + 1
```

```
= 4009999
```

```
I I nd consecutive number = 4009999 + 1
```

```
= 4010000
```

and III rd consecutive number

= 4010001.

= 4010000 + 1

III. Short Answer Type Questions

1. Find the product using suitable property

4 X 178 X 25 4 X 178 X 25 = (4 X 25) X 178 [Associative property] = 100 X 178 = 17, 800

2. Simplify: 126 X 55 + 126 X 45.
126 X 55 + 126 X 45 = 126 X (55 + 45)
= 126 X 100 = 12,600.



3. Find the product using suitable properties.

3. Find the product using a	suitable properties.
(i) 738 X 103	ii) 258 X 1,008
(i) 738 X 103	= 738 (100 + 3)
	= 738 X 100 + 738 X 3
	= 73,800 + 2, 214 = 76, 014
(ii) 258 X 1,008	= 258 X (1000 + 8)
	= 258 X 1, 000 + 258 X 8
	= 2, 58, 000 + 2, 064 = 2, 60, 064.
4. Find the following produ	
(i) 11 X 69	(ii) 824 X 25
(i) 11 X 69	= (10 + 1) X 69
	$= 10 \times 69 + 1 \times 69$
	= 690 + 69 = 759
(ii) 824 X 25	$= 824 \times (20 + 5)$
	= 824 X 20 + 824 X 5
	= 16, 480 + 4, 120 = 20, 600.
5. Find the sum by short r	
(i) 6, 784 + 9, 999	(ii) 10, 578 + 99, 999
(i) 6784 + 9,999	= 6784 + (10,000-1)
	= (6784 + 10, 000) -1
	= 16, 784 -1
	= 16, 783
(ii) 10, 578 + 99, 999	= 10, 578 + (1, 00, 000)-1
	= 1, 10, 578 – 1
	= <mark>1,</mark> 10, 577
6. Fill in the blanks:	
(i) 125 + (69 + 17) = (12	5 +) + 17
(ii) 24 X 25 = 24 X - =6	00
4	
(iii) 786 x 3 + 786 x 7 =	
6Y7 v (
(iv) If 0 is subtracted f	from a whole number, then the result is the
itself.	

1. 69 2. 100 3. 7, 860 4. number	
--	--



7. A car moves at a uniform speed of 75 km per hour. How much distance will it cover in 98 hours?

= 75 X (100-2)

= 75 X 100 - 75 X 2

= 7, 500 - 150 = 7, 350 km

Car's speed = 75 km per hour = 98 hours Time taken So, distance covered by car would be Distance = speed X Time So, distance covered by car is 98 hours = 75 X 98 8. Study the following pattern in triangular numbers and extend it to 3 more steps: 8 X 1 + 1 = 9 = 3 X 3 8 X 3 + 1 = 25 = 5 X 5 8 X 6 + 1 = 49 = 7 X 7 8 X 10 + 1 = 81 = 9 X 9 8 X 15 + 1 = 121 = 11 X 11

Now, fill in the blanks:

- (i) 8 times the 12th triangular number plus 1 = _____X ____X
- (ii) 8 times the _____ triangular number plus 1 = 27 X 27 = __

Extending the pattern to three steps, we get

8 X 1 + 1 = = 3 X 3 8 X 3 + 1 == 5 X 5 8 X 6 + 1 = = 7 X 7 8 X 10 + 1 = 9 X 9 8 X 15 + 1 = 11 X 11 8 X 21 + 1 = 13 X 13 8 X 28 + 1 = 15 X 15 8 X 36 + 1 = 17 X 17

(i) 8 times the 12^{th} triangular number plus 1 = 8 X 78 + 1 = 25 X 25 (ii) 8 times the 27th triangular number plus 1= 27 X 27= 8 X 91 + 1.

- 9. State whether the following statements are True or False:
 - (i) Successor of a two digit number is always a 3-digit number.
 - (ii) Predecessor of a two digit number is always a two digit number.



- (iii) The smallest 4-digit number is the successor of the largest 3-digit number.
- (iv) Of the given two natural numbers, the one having more digits is greater.

10. Find a number which when divided by 35 gives the quotient 20 and remainder 18. We have, Divisor = 35 Quotient = 20 Remainder = 18 We have to find dividend. By the division algorithm we have, Dividend = Divisor X Cuotient + Remainder Dividend = $35 \times 20 + 18$ = $700 + 18 = 718$ Required number is 718. 11. Find the sum: (1, 546 + 498) + 3, 589. Also, find the sum: 1, 546 + (498 + 3, 589). Are the two sums equal? State the property satisfied. Sum of (1, 546 + 498) + 3, 589 = 2, 044 + 3, 589 = 5, 633 Now, the sum of 1, 546 + (498 + 3, 589) = 1, 546 + 4, 087 = 5, 633 So, sum in both the cases are same. The property here used is associative property and under this property we know that (a + b) + c = a + (b + c) 12. On dividing 55, 390 by 299, the remainder is 75. Find the quotient using the division algorithm. Dividend = 55, 390 Divisor = 299 Remainder = 75 We have to find the quotient by applying division algorithm, we have Divided = (Divisor X Quotient) + 75 (299 X Quotient) = 55, 390 - 75 299 X Quotient) = 55, 390 - 75 299 X Quotient) = 55, 315 Quotlent = <u>55, 315</u>	1. False	2. False	3. T	rue	4. True
We have, Divisor = 35 Quotient = 20 Remainder = 18 We have to find dividend. By the division algorithm we have, Dividend = Divisor X Quotient + Remainder Dividend = $35 \times 20 + 18$ = 700 + 18 = 718 Required number is 718. 11. Find the sum: (1, 546 + 498) + 3, 589. Also, find the sum: (1, 546 + (498 + 3, 589). Are the two sums equal? State the property satisfied. Sum of (1, 546 + 498) + 3, 589 = 2, 044 + 3, 589 = 5, 633 Now, the sum of 1, 546 + (498 + 3, 589) = 1, 546 + 4, 087 = 5, 633 Now, the sum of 1, 546 + (498 + 3, 589) = 1, 546 + 4, 087 = 5, 633 So, sum in both the cases are same. The property here used is associative property and under this property we know that (a + b) + c = a + (b + c) 12. On dividing 55, 390 by 299, the remainder is 75. Find the quotient using the division algorithm. Dividend = 55, 390 Divisor = 299 Remainder = 75 We have to find the quotient by applying division algorithm, we have Divided = (Divisor X Quotient) + 75 (299 X Quotient) = 55, 390 - 75 299 X Quotient = 55, 315 Quotient = <u>55, 315</u>					
Quotient = 20 Remainder = 18 We have to find dividend. By the division algorithm we have, Dividend = Divisor X Quotient + Remainder Dividend = $35 \times 20 + 18$ = $700 + 18 = 718$ Required number is 718. 11. Find the sum: $(1, 546 + 498) + 3, 589$. Also, find the sum: $1, 546 + (498 + 3, 589)$. Are the two sums equal? State the property satisfied. Sum of $(1, 546 + 498) + 3, 589 = 2, 044 + 3, 589$ = $5, 633$ Now, the sum of $1, 546 + (498 + 3, 589) = 1, 546 + 4, 087$ = $5, 633$ So, sum in both the cases are same. The property here used is associative property and under this property we know that (a + b) + c = a + (b + c) 12. On dividing 55, 390 by 299, the remainder is 75. Find the quotient using the division algorithm. Dividend = $55, 390$ Divisor = 299 Remainder = 75 We have to find the quotient by applying division algorithm, we have Divided = (Divisor X Quotient) + 75 ($299 \times Quotient$) = $55, 390 - 75$ $299 \times Quotient$ = $55, 315$ Quotient = $55, 315$	10. F	Find a number which whe	n divided by 35	gives the quotient 20	and remainder 18.
Remainder = 18 We have to find dividend. By the division algorithm we have, Dividend = Divisor X Quotient + Remainder Dividend = $35 \times 20 + 18$ = 700 + 18 = 718 Required number is 718. 11. Find the sum: (1, 546 + 498) + 3, 589. Also, find the sum: 1, 546 + (498 + 3, 589). Are the two sums equal? State the property satisfied. Sum of (1, 546 + 498) + 3, 589 = 2, 044 + 3, 589 = 5, 633 Now, the sum of 1, 546 + (498 + 3, 589) = 1, 546 + 4, 087 = 5, 633 Now, the sum of 1, 546 + (498 + 3, 589) = 1, 546 + 4, 087 = 5, 633 So, sum in both the cases are same. The property here used is associative property and under this property we know that (a + b) + c = a + (b + c) 12. On dividing 55, 390 by 299, the remainder is 75. Find the quotient using the division algorithm. Dividend = 55, 390 Divisor = 299 Remainder = 75 We have to find the quotient by applying division algorithm, we have Divided = (Divisor X Quotient) + 75 (299 X Quotient) = 55, 390 - 75 299 X Quotient) = 55, 315 Quotient = <u>55, 315</u>	١	We have, Divisor = 35			
We have to find dividend. By the division algorithm we have, Dividend = Divisor X Quotient + Remainder Dividend = $35 \times 20 + 18$ = 700 + 18 = 718 Required number is 718. 11. Find the sum: (1, 546 + 498) + 3, 589. Also, find the sum: 1, 546 + (498 + 3, 589). Are the two sums equal? State the property satisfied. Sum of (1, 546 + 498) + 3, 589 = 2, 044 + 3, 589 = 5, 633 Now, the sum of 1, 546 + (498 + 3, 589) = 1, 546 + 4, 087 = 5, 633 So, sum in both the cases are same. The property here used is associative property and under this property we know that (a + b) + c = a + (b + c) 12. On dividing 55, 390 by 299, the remainder is 75. Find the quotient using the division algorithm. Dividend = 55, 390 Divisor = 299 Remainder = 75 We have to find the quotient by applying division algorithm, we have Divided = (Divisor X Quotient) + 75 (299 X Quotient) = 55, 315 Quotient = 55, 315	(Quotient = 20			
Dividend = Divisor X Quotient + Remainder Dividend = $35 \times 20 + 18$ = $700 + 18 = 718$ Required number is 718. 11. Find the sum: (1, 546 + 498) + 3, 589. Also, find the sum: 1, 546 + (498 + 3, 589). Are the two sums equal? State the property satisfied. Sum of (1, 546 + 498) + 3, 589 = 2, 044 + 3, 589 = 5, 633 Now, the sum of 1, 546 + (498 + 3, 589) = 1, 546 + 4, 087 = 5, 633 So, sum in both the cases are same. The property here used is associative property and under this property we know that (a + b) + c = a + (b + c) 12. On dividing 55, 390 by 299, the remainder is 75. Find the quotient using the division algorithm. Dividend = 55, 390 Divisor = 299 Remainder = 75 We have to find the quotient by applying division algorithm, we have Divided = (Divisor X Quotient) + 75 (299 X Quotient) = 55, 315 Quotient = <u>55, 315</u>	F	Remainder = 18			
Dividend = $35 \times 20 + 18$ = $700 + 18 = 718$ Required number is 718. 11. Find the sum: (1, 546 + 498) + 3, 589. Also, find the sum: 1, 546 + (498 + 3, 589). Are the two sums equal? State the property satisfied. Sum of (1, 546 + 498) + 3, 589 = 2, 044 + 3, 589 = 5, 633 Now, the sum of 1, 546 + (498 + 3, 589) = 1, 546 + 4, 087 = 5, 633 So, sum in both the cases are same. The property here used is associative property and under this property we know that	1	We have to find dividend	. By the divisior	n algorith <mark>m</mark> we have,	
= 700 + 18 = 718 Required number is 718. 11. Find the sum: (1, 546 + 498) + 3, 589. Also, find the sum: 1, 546 + (498 + 3, 589). Are the two sums equal? State the property satisfied. Sum of (1, 546 + 498) + 3, 589 = 2, 044 + 3, 589 = 5, 633 Now, the sum of 1, 546 + (498 + 3, 589) = 1, 546 + 4, 087 = 5, 633 So, sum in both the cases are same. The property here used is associative property and under this property we know that (a + b) + c = a + (b + c) 12. On dividing 55, 390 by 299, the remainder is 75. Find the quotient using the division algorithm. Dividend = 55, 390 Divisor = 299 Remainder = 75 We have to find the quotient by applying division algorithm, we have Divided = (Divisor X Quotient) + 75 (299 X Quotient) = 55, 390 - 75 299 X Quotient = 55, 315 Quotient = 55, 315	I	Dividend = Divisor X (Quotient + Rema	linder	
Required number is 718. 11. Find the sum: $(1, 546 + 498) + 3, 589$. Also, find the sum: $1, 546 + (498 + 3, 589)$. Are the two sums equal? State the property satisfied. Sum of $(1, 546 + 498) + 3, 589 = 2, 044 + 3, 589$ = 5, 633 Now, the sum of $1, 546 + (498 + 3, 589) = 1, 546 + 4, 087$ = 5, 633 So, sum in both the cases are same. The property here used is associative property and under this property we know that (a + b) + c = a + (b + c) 12. On dividing 55, 390 by 299, the remainder is 75. Find the quotient using the division algorithm. Dividend $= 55, 390$ Divisor $= 299$ Remainder $= 75$ We have to find the quotient by applying division algorithm, we have Divided = (Divisor X Quotient) + 75 $(299 \times Quotient) = 55, 390 - 75$ $299 \times Quotient = 55, 315$ Quotient $= 55, 315$	ſ	Dividend = 35 X 20 +	18		
11. Find the sum: $(1, 546 + 498) + 3, 589$. Also, find the sum: $1, 546 + (498 + 3, 589)$. Are the two sums equal? State the property satisfied. Sum of $(1, 546 + 498) + 3, 589 = 2, 044 + 3, 589$ = 5, 633 Now, the sum of $1, 546 + (498 + 3, 589) = 1, 546 + 4, 087$ = 5, 633 So, sum in both the cases are same. The property here used is associative property and under this property we know that (a + b) + c = a + (b + c) 12. On dividing 55, 390 by 299, the remainder is 75. Find the quotient using the division algorithm. Dividend $= 55, 390$ Divisor $= 299$ Remainder $= 75$ We have to find the quotient by applying division algorithm, we have Divided = (Divisor X Quotient) + 75 $(299 \times Quotient) = 55, 315$ Quotient $= 55, 315$		= 700 + 18 =	718		
Also, find the sum: 1, 546 + (498 + 3, 589). Are the two sums equal? State the property satisfied. Sum of (1, 546 + 498) + 3, 589 = 2, 044 + 3, 589 = 5, 633 Now, the sum of 1, 546 + (498 + 3, 589) = 1, 546 + 4, 087 = 5, 633 So, sum in both the cases are same. The property here used is associative property and under this property we know that (a + b) + c = a + (b + c) 12. On dividing 55, 390 by 299, the remainder is 75. Find the quotient using the division algorithm. Dividend = 55, 390 Divisor = 299 Remainder = 75 We have to find the quotient by applying division algorithm, we have Divided = (Divisor X Quotient) + 75 (299 X Quotient) = 55, 315 Quotient = 55, 315	F	Required number is 718.			
Also, find the sum: 1, 546 + (498 + 3, 589). Are the two sums equal? State the property satisfied. Sum of (1, 546 + 498) + 3, 589 = 2, 044 + 3, 589 = 5, 633 Now, the sum of 1, 546 + (498 + 3, 589) = 1, 546 + 4, 087 = 5, 633 So, sum in both the cases are same. The property here used is associative property and under this property we know that (a + b) + c = a + (b + c) 12. On dividing 55, 390 by 299, the remainder is 75. Find the quotient using the division algorithm. Dividend = 55, 390 Divisor = 299 Remainder = 75 We have to find the quotient by applying division algorithm, we have Divided = (Divisor X Quotient) + 75 (299 X Quotient) = 55, 315 Quotient = 55, 315					
Are the two sums equal? State the property satisfied. Sum of $(1, 546 + 498) + 3, 589 = 2, 044 + 3, 589$ = 5, 633 Now, the sum of $1, 546 + (498 + 3, 589) = 1, 546 + 4, 087$ = 5, 633 So, sum in both the cases are same. The property here used is associative property and under this property we know that (a + b) + c = a + (b + c) 12. On dividing 55, 390 by 299, the remainder is 75. Find the quotient using the division algorithm. Dividend = 55, 390 Divisor = 299 Remainder = 75 We have to find the quotient by applying division algorithm, we have Divided = (Divisor X Quotient) + 75 (299 X Quotient) = 55, 390 - 75 299 X Quotient) = 55, 315 Quotient = <u>55, 315</u>	11. F	Find the sum: (1, 546 + 4	98) + <mark>3,</mark> 589.		
Sum of $(1, 546 + 498) + 3, 589 = 2, 044 + 3, 589$ = 5, 633 Now, the sum of 1, 546 + (498 + 3, 589) = 1, 546 + 4, 087 = 5, 633 So, sum in both the cases are same. The property here used is associative property and under this property we know that (a + b) + c = a + (b + c) 12. On dividing 55, 390 by 299, the remainder is 75. Find the quotient using the division algorithm. Dividend = 55, 390 Divisor = 299 Remainder = 75 We have to find the quotient by applying division algorithm, we have Divided = (Divisor X Quotient) + 75 (299 X Quotient) = 55, 390 - 75 299 X Quotient = 55, 315 Quotient = <u>55, 315</u>	ŀ	Also, find the sum: 1, 546	o + (498 <mark>+ 3, 58</mark> 9	9).	
= 5, 633 Now, the sum of 1, 546 + (498 + 3, 589) = 1, 546 + 4, 087 = 5, 633 So, sum in both the cases are same. The property here used is associative property and under this property we know that (a + b) + c = a + (b + c) 12. On dividing 55, 390 by 299, the remainder is 75. Find the quotient using the division algorithm. Dividend = 55, 390 Divisor = 299 Remainder = 75 We have to find the quotient by applying division algorithm, we have Divided = (Divisor X Quotient) + 75 (299 X Quotient) = 55, 390 - 75 299 X Quotient = 55, 315 Quotient = <u>55, 315</u>	ŀ	Are the two sums equal?	State th <mark>e prop</mark> e	erty satisfied.	
Now, the sum of 1, 546 + (498 + 3, 589) = 1, 546 + 4, 087 = 5, 633 So, sum in both the cases are same. The property here used is associative property and under this property we know that (a + b) + c = a + (b + c) 12. On dividing 55, 390 by 299, the remainder is 75. Find the quotient using the division algorithm. Dividend = 55, 390 Divisor = 299 Remainder = 75 We have to find the quotient by applying division algorithm, we have Divided = (Divisor X Quotient) + 75 (299 X Quotient) = 55, 390 - 75 299 X Quotient = 55, 315 Quotient = 55, 315		Sum of (1, 546 + 498) + 3	, 589 = 2, 044	+ 3, 589	
= 5, 633 So, sum in both the cases are same. The property here used is associative property and under this property we know that (a + b) + c = a + (b + c) 12. On dividing 55, 390 by 299, the remainder is 75. Find the quotient using the division algorithm. Dividend = 55, 390 Divisor = 299 Remainder = 75 We have to find the quotient by applying division algorithm, we have Divided = (Divisor X Quotient) + 75 (299 X Quotient) = 55, 390 - 75 299 X Quotient = 55, 315 Quotient = <u>55, 315</u>					
So, sum in both the cases are same. The property here used is associative property and under this property we know that (a + b) + c = a + (b + c) 12. On dividing 55, 390 by 299, the remainder is 75. Find the quotient using the division algorithm. Dividend = 55, 390 Divisor = 299 Remainder = 75 We have to find the quotient by applying division algorithm, we have Divided = (Divisor X Quotient) + 75 (299 X Quotient) = 55, 390 - 75 299 X Quotient = 55, 315 Quotient = <u>55, 315</u>	٦	Now, the sum of 1, 546 +	(498 + 3, 589) =	= 1, 546 + 4, 087	
The property here used is associative property and under this property we know that (a + b) + c = a + (b + c) 12. On dividing 55, 390 by 299, the remainder is 75. Find the quotient using the division algorithm. Dividend = 55, 390 Divisor = 299 Remainder = 75 We have to find the quotient by applying division algorithm, we have Divided = (Divisor X Quotient) + 75 (299 X Quotient) = 55, 390 - 75 299 X Quotient = 55, 315 Quotient = <u>55, 315</u>			-	= 5, 633	
that (a + b) + c = a + (b + c) 12. On dividing 55, 390 by 299, the remainder is 75. Find the quotient using the division algorithm. Dividend = 55, 390 Divisor = 299 Remainder = 75 We have to find the quotient by applying division algorithm, we have Divided = (Divisor X Quotient) + 75 (299 X Quotient) = 55, 390 - 75 299 X Quotient = 55, 315 Quotient = 55, 315		So, sum in both the cases	s are same.		
(a + b) + c = a + (b + c) 12. On dividing 55, 390 by 299, the remainder is 75. Find the quotient using the division algorithm. Dividend = 55, 390 Divisor = 299 Remainder = 75 We have to find the quotient by applying division algorithm, we have Divided = (Divisor X Quotient) + 75 (299 X Quotient) = 55, 390 - 75 299 X Quotient = 55, 315 Quotient = <u>55, 315</u>			s associative pro	operty and under this	; property we know
 12. On dividing 55, 390 by 299, the remainder is 75. Find the quotient using the division algorithm. Dividend = 55, 390 Divisor = 299 Remainder = 75 We have to find the quotient by applying division algorithm, we have Divided = (Divisor X Quotient) + 75 (299 X Quotient) = 55, 390 - 75 299 X Quotient = 55, 315 Quotient = <u>55, 315</u> 	t				
division algorithm. Dividend = 55, 390 Divisor = 299 Remainder = 75 We have to find the quotient by applying division algorithm, we have Divided = (Divisor X Quotient) + 75 (299 X Quotient) = 55, 390 - 75 299 X Quotient = 55, 315 Quotient = <u>55, 315</u>		· · · · · ·			
Dividend = 55, 390 Divisor = 299 Remainder = 75 We have to find the quotient by applying division algorithm, we have Divided = (Divisor X Quotient) + 75 (299 X Quotient) = 55, 390 - 75 299 X Quotient = 55, 315 Quotient = <u>55, 315</u>			99, the remaind	ler is 75. Find the qu	otient using the
Divisor = 299 Remainder = 75 We have to find the quotient by applying division algorithm, we have Divided = (Divisor X Quotient) + 75 (299 X Quotient) = 55, 390 - 75 299 X Quotient = 55, 315 Quotient = <u>55, 315</u>		-			
Remainder = 75 We have to find the quotient by applying division algorithm, we have Divided = (Divisor X Quotient) + 75 (299 X Quotient) = 55, 390 - 75 299 X Quotient = 55, 315 Quotient = <u>55, 315</u>					
We have to find the quotient by applying division algorithm, we have Divided = (Divisor X Quotient) + 75 (299 X Quotient) = 55, 390 - 75 299 X Quotient = 55, 315 Quotient = <u>55, 315</u>					
Divided = (Divisor X Quotient) + 75 (299 X Quotient) = 55, 390 - 75 299 X Quotient = 55, 315 Quotient = <u>55, 315</u>					
(299 X Quotient) = 55, 390 - 75 299 X Quotient = 55, 315 Quotient = <u>55, 315</u>				division algorithm, w	e have
Quotient = <u>55, 315</u>			,	\sim	0 0
Quotient = <u>55, 315</u>	(299 X Quotient) = 55, 3	90 - 75	tion Do	had
			15		TUUT
299	(
Quotient = 185.	(Quotient = 185.			



I. Long Answer Type Questions

 Mr. Rajesh withdraws ₹ 100000 from his bank account. He purchased a TV set for ₹ 38650, a refrigerator for ₹ 23880 and jewellery worth ₹ 35560. How much was left with him?

Given, money withdraws from bank = ₹ 100000

Money spent on TV = ₹ 38650 Money spent on refrigerator = ₹ 23880 Money spent on jewellery = ₹ 35560 Total amount spent ₹

= 38650 + 23830 + 35560

= 98090

Left money

= ₹ 100000- ₹ 98090= ₹ 1910

2. Find the difference between the smallest number of 7-digit and the largest number of 4- digit

The smallest number of 7-digit = 100000

And the largest number of 4-digit = 9999 ∴ The difference between them

= 100000-9999 = 990001.

3. In a city, polio drops were given to 212583 children on Sunday in March 2013 and to 216813 children in next month.

a) Find the difference of the number of children getting polio drops in the two months.

b) What is the value of vaccinating children for polio in India?

a. Given, number of children , who got polio drops in March 2013 = 212583 Number of children, who get polio drops in next month = 216813

- ∴ Difference of the number of children getting polio drops in two months.
 = 216813 212583 = 4230 children
- b. I mportance of pulse polio drops



The children are vaccinated for their protection against deadly polio virus. All the babies below 5 yrs of age are given oral polio vaccine simultaneously; it helps to eradicate the virus.

4. Study the following patterns.

 $1 = 1^2$ $1 + 3 = 2^2$ $1 + 3 + 5 = 3^2$ $1 + 3 + 5 + 7 = 4^2$ Hence, find the sum of a) First 12 odd number b) First 50 odd number

```
The given pattern is
               1 = 1^2
          1 + 3 = 2^2
     1 + 3 + 5 = 3^2
1 + 3 + 5 + 7 = 4^2
```

```
a. Sum of first 12 odd numbers
      1 + 3 + 7 + 9 + 11 + 13 + 15 + 19 + 21 + 23 + 25 = 12^2 = 144
b. Similarly, sum of first 50 odd numbers.
                      = 50^2 = 2500.
```

II. Long Answer Type Questions

- 1. Determine the sum of the four numbers as given below:
 - a. Successor of 32
 - b. Predecessor of 49
 - c. Predecessor of the predecessor of 56
 - d. Successor of the successor of 67

- a. Successor of 32 = 32 + 1 = 33 b. Predecessor of 49 = 49 -1 = 48
- c. Predecessor of 56 = 56 1 = 55

Again, Predecessor of 55 = 55 - 1 = 54

d. Successor of 67 = 67 + 1 = 68



Again, successor of 68 = 68 + 1 = 69Sum 33 + 48 + 54 + 69= 204

- 2. Find the value of: 3845 X 5 X 782 + 769 X 25 X 218.
 - 3845 X 5 X 782 + 769 X 25 X 218
 - = 3845 X 5 X 782 + (769 X 5) X 5 X 218
 - = 3845 X 5 X 782 + 3845 X 5 X 218
 - = 3845 X 5 X (782 + 218)
 - = 3845 X 5 X 1000
 - = 19225 X 1000
 - = 19225000.
- 3. Determine the product of the greatest number of four digits and the greatest number of three digits?

We know that

1.

:.

We know that
Greatest number of four digits = 9999
Greatest number of three digits = 999
∴ required product
= 9999 X 999
= 9999 X (1000-1)
= 9999 X 1000 - 9999 X 1
[∴ a x (b – c) = a x b – a x c]
= (10000-1) X 1000- (10 <mark>00-1) X 1</mark>
= 1000000 - 1000 - 10000 + 1
= 10000001 - 11000
= 9989001.
III. Long Answer Type Questions
Find the product using suitable properties.
i. 738 X 103 ii. 854 X 102
iii. 258 X 1, 008 iv. 1,005 X 168
Jessi Jenerarion Ocho

i. 738 X 103 = 738 X (100 + 3) = 73, 800 + 2,214 = 76, 014 ii. 854 X 102 = 854 X (100 + 2)



= 2,58,000 + 2,064 = 2,60,064iii. 258 X 1008 = 258 X (1, 000 + 8) = 2,58,000 + 2,064 = 2,60,064iv. 1, 005 X 168 = 1, 68, 000 + 840 = 1, 68, 840 = 1, 68, 000 + 840 = 1, 68, 840 2. Find the value of the following: i. 297 X 17 + 297 X 3 ii. 54, 279 X 92 + 8 X 54, 279 iii. 81, 265 X 169 - 81, 265 X 69 iv. 3,845 X 5X 782 + 769 X 25 X 218 i. 297 X 17 + 297 X 3 By distributive law over addition, we have 297 X 17 + 297 X 3 = 297 (17 +3) = 297 X 20 = 5, 940 ii. 54, 279 X 92 + 8 X 54, 279 By using distributive law, we have: 54, 279 X 92 + 8 X 54, 279 = 54, 279 (92 + 8) = 54, 279 (100) = 54, 27, 900 iii. 81, 265 X 169 - 81, 265 X 69 Using distributive law, we have: 81, 265 X 169 - 81, 265 X 69 = 81, 265 (169-69) = 81, 265 (100) = 81, 26, 500 iv. 3,845 X 5X 782 + 769 X 25 X 218 We can write this as 19, 225 X 782 + 19, 225 X 218 Using distributive law, we have

19,225 X 782 + 19, 225 X 218 = 19, 225 (783 + 218)

= 19, 225 (1000) = 1, 92, 25, 000

3. Find the value using distributive property:

i. 728 X 101	ii. 5, 437 X 1, 001
iii. 824 X 25	iv. 4, 275 X 125

School



v. 504 X 35

i. 728 X 101 We can write this as $728 \times (100 + 1)$ Using distributive property, we have 728 X (100 + 1) = 728 X 100 + 728 X 1 = 72, 800 + 728 = 73, 528 ii. 5, 437 X 1, 001 We can write this as, 5, 437 X (1000 + 1) Now using distributive property, we have 5, 437 X (1000 + 1) = 5, 437 X 1000 + 5, 437 X 1 = 54, 37, 000 + 5, 437 = 54, 42, 437iii. 824 X 25 We can write this as $824 \times (20 + 5)$ Now using distributive property, we have 824 X (20 + 5) = 824 X 20 + 824 X 5 = 16, 480 + 4, 120 = 20, 600 iv. 4, 275 X 125 We can write this as 4, 275 X (1000 + 25) Now using distributive property, we have 4, 275 X (100 + 25) = 4, 275 X 100 + 4, 275 X 25 = 4, 27, 500 +1, 06, 875 = 5, 34, 375 v. 504 X 35 We can write this as 504 X (50 - 15) Now using distributive property, we have

504 X (50 - 15) = 504 X 50 - 504 X 15

= 25, 200 – <mark>7</mark>, 560 = 17, 640.

4. Match the following

1. Successor of 7	a. not defined
2. Predecessor of 6	b. 0
3. Sum of two consecutive whole numbers	c. 1
4. Difference of any two consecutive whole numbers	d. 5
5. Product of two non-zero consecutive whole numbers	e. 6
6. Product of a whole number by zero	f.7
7. Quotient when any whole number is divided by zero	g. 8
8. 2 added two times, to the smallest natural number	h. even
9. 3 added two times, to the smallest whole number	i. odd



1. g	2. d	3. i	4. f	5. h
6. b	7. a	8. f	9. e	

5. In the marriage of her daughter, Leela spent ₹ 2, 16, 766 on food and decoration, ₹ 1, 22, 322 on jewellery, ₹ 88, 234 on furniture and ₹ 26, 780 on kitchen items. Find the total amount spent by her on the above items. Money spent on food and decoration = \gtrless 2, 16, 766 Money spent on jewellery = ₹ 1, 22, 322 Money spent on furniture = ₹ 88, 234 Money spent on kitchen items = ₹ 26, 780. Total amount spent = Money spent on food and decoration + jewellery + furniture + Kitchen items = ₹ 2, 16, 766 + ₹ 1, 22, 322 + ₹ 88, 234 + ₹ 26, 780 = (2, 16, 766 + 88, 234) + 1, 22, 322 + 26, 780 = 3, 05, 000 + 1, 22, 322 + 26, 780 = (3, 05, 000 + 26, 780) + 1, 22, 322 = 3, 31, 780 + 1, 22, 322 = ₹ 4, 54, 102 6. Find the product by suitable rearrangement i. 2 X 1, 768 X 50 ii. 4 X 166 X 25 iii. 8 X 291 X 15 iv. 625 X 279 X 16 v. 285 X 5 X 60 vi. 125 X 40 X 8 X 25 i. 2 X 1, 768 X 50 Using Associative law, 2 X 1768 X 50 = 1, 768 X (2 X 50) = 1, 768 X (100) = 1, 76, 800 ii. 4 X 166 X 25 Using Associative law, 4 X 166 X 25 = 166 X (25X 4) = 166 X 9100) = 16, 600 iii. 8 X 291 X 15 Using Associative law, School 8 X 291 X 125 = 291 X (125 X 8) = 291 X (1000) = 2, 91, 000 iv. 625 X 279 X 16 Using Associative law, 625 X 279 X 16 = 279 X (625 X 16)



= 279 X (10, 000) = 27, 90, 000

v. 285 X 5 X 60 Using Associative law, 285 X 5 X 60 = 285 X (60X 5) = 285 X 300 = 85, 500 vi. 125 X 40 X 8 X 25 = 125 X 40 X (8X 25) = 125 X 40 X 200 Using Associative law, 125 X 40 X 200 = 200 X (125 X 40) = 200 X (5000) = 10, 00, 000 7. Find the difference: i. 463 – 9 ii. 5, 632 - 99 iii. 8, 640-999 iv. 13, 3006 - 9, 999 i. 463 – 9 We can write this as 463 - (10 - 1)463 - (10 - 1) = 463 - 10 + 1= 464 - 10 = 454 ii. 5, 632 - 99 We can write this as 5, 632 - (100 - 1) 5,682 - (100 - 1) = 5,632 - 100 + 1= 5, 632 - 100 = 5, 533 iii. 8, 640 - 999 We can write this as 8, 640 – (1,000 - 1) 8, 640 - (1, 000 - 1) + 1 = (8, 640 + 1) - 1, 000 = 8, 641 - 1, 000 = 7,641 iv. 13, 3006 - 9, 999 We can write this as 13, 006 - (10, 000 - 1) 16,006 - (10,000 - 1) = 13,005 - 10000 + 1on School = 13,007 - 10,000 = 3, 007. et al



 A box contains 5 strips having 12 capsules of 500 mg medicine in each capsule. Find the total weight in grams of medicine in 32 such boxes. We have.

Strips in a box = 5

Weight of medicine in each capsules = 500 mg

So now,

Total no. of capsules in a box = strips in box x capsules in each strip

= 5 X 12

= 60

Weight of medicine in the capsules in each box

= weight of medicine in each capsules X total no. of capsules

- = 500 mg X 60
- = 30, 000 mg

Now we have to find total weight in grams in 32 boxes. So,

Total weight = Total no. of boxes X total weight of medicine in capsules in each box.

= 32 X 30, 000 mg = 9, 60, 000 mg

Total weight in grams = 960 g

[1 gram = 1, 000mg]

I. High Order Thinking Skills Questions

Find the number which when divided by 46 gives a quotient 11 and remainder 18.
 Since, Divisor = 46

Quotient = 11 and Remainder = 18 We know that, Dividend = Divisor X quotient + Remainder Then, Dividend = 46 X 11 + 18 = 506 + 18 = 524Hence, the required number is = 524.



2. Which least number should be added to 1000 so that 45 divides the sum exactly?

Let r is the remainder, then the required number = 45 - r

Hence, the required number = 45 – 10 = 35.

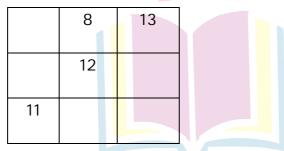
45) 1000(22

...

<u>90</u> 100 <u>90</u> 10

II. High Order Thinking Skills Questions

- How much greater is the smallest 5-digit number with three different digits than the largest 4-digit number with all different digits? Smallest 5-digit number = 10, 000 Smallest 5-digit number with three different digits = 10, 002 Largest 4- digit number = 9, 999 Largest 4-digit number with all different digits = 9876 Difference between the smallest 5- digit number with three different digits and the largest 4-digit number with all different digits = 10, 002 - 9, 876 = 126 So, the smallest 5-digit number with three different digits is greater than the largest 4-digit number with all different digits by 126.
- 2. Fill in the blank cells in the following magic square:



Since, diagonal 13 + 12 + 11 = 36, so, unknown number in first row is

30

36 - (8+13) = 15Unknown number in second column = 36 - (8+12)= 16Unknown number in third row = 36 - (16+11)= 36-27

6	15 Ch	8	13
	10	12	14
	11	16	9

10

Created by Pinkz



Unknown number in second row

3. In a large housing complex, there are 14 small buildings and 28 large buildings. Each of the large buildings als 12 floors with 2 apartments on each floor. Each of the small buildings has 14 floors with 3 apartments on each floor. How many apartments are there in all?
Number of small buildings = 14
Number of floors in each buildings = 14 X 14 = 196
Number of apartments on each floor in a small building = 3
Total number of apartments in small buildings = 196 X 3

= 588

Number of large buildings = 28 Number of floors in each building = 12

∴ Number of floors in 28 buildings = 12 X 28

= 336

Number of apartments on each floor in large building = 2

Total number of apartments in large building = 336 X 2

= 672

Total number of apartments = Total number of apartments in small buildings

+ Total number of apartments in large buildings

= 588 + 672

= 1, 260

4. The product of 2-digit numbers is 3, 285. If the product of their unit's digit is 15 and that of ten's digit is 28, find the numbers.

We have,

Product of unit's digits = 15

Product of units digits = 3×5

So, units' digits are 3 and 5

Product of ten's digits = 28

Product of tens digits = 4 X 7

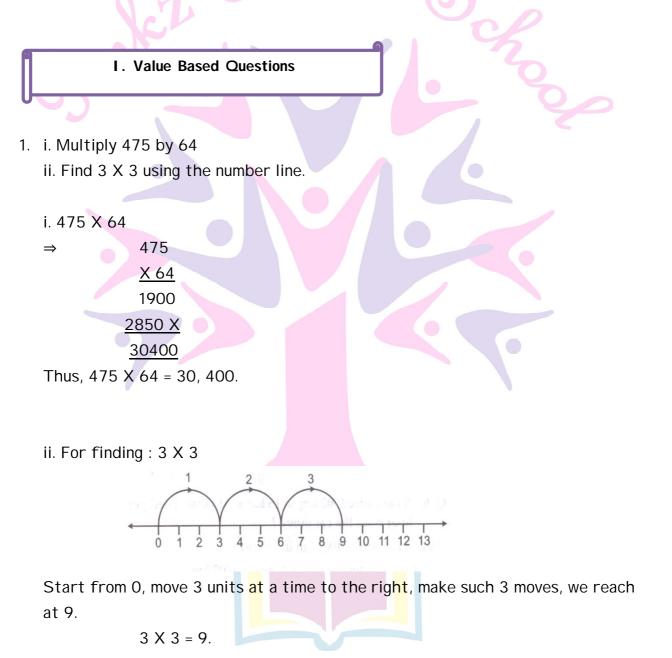
Ten's digits are 4 and 7

Thus, the two numbers are either 43 and 75 or 45 and 73.

Now, $43 \times 75 = 43 \times (70 + 5)$



It is given that the product of the numbers is 3285. Hence, the numbers are 45 and 73.



Next Generation School



 i. A dealer purchased 125 C television sets. If the cost of each set is ₹ 19820, find the cost of all sets together.

ii. Write the successor and predecessor of one million.

