MATHS

BOOKS - NAND LAL PUBLICATION

WHOLE NUMBERS

Try These

1. Write the predecessor and successor of 19,1997,12000,49,100000

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2. Is there any natural number that has no predecessor?

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3. Is there any natural number which has no succeesor ?Is there a last nautral number?

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4. Are all natural numbers also whole numbers?

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5. Are all whole numbers also natural numbers?

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6. Which is the smallest prime number?

7. Find $4 + 5$, $2 + 6$, $3 + 5$ and $1 + 6$ using the number line.

8. Find $8 - 3$, $6 - 2$, $9 - 6$ using the number line.

9. Find $2 \times 3, 3 \times 3$ and 2×2 using the number line.

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10. Find $7 + 18 + 13, 16 + 12 + 4$.

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11. Find using distributive property.

728x101

▶

12. Find $15 \times 68, 17 \times 23, 69 \times 78 + 22 \times 69$

using distributive property.

13. Which number can be shown only as a line?

14. Which numbers can be shown as squares?

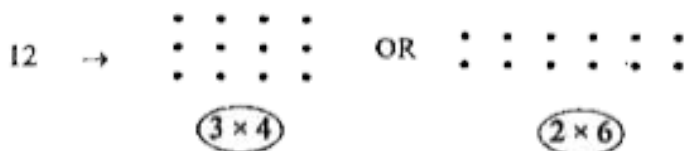▶ **Watch Video Solution**

15. Which numbers can be shown as rectangles?

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16. Write down the first seven triangular numbers.

17. Some numbers can be shown by two rectangles for example

Give at least five other examples.

Try These Verify

1. Subtraction is not commutative for whole numbers. Use at least three different pairs of numbers to verify it.

2. Is $(6 + 3)$ same as $(3/6)$?

Justify it by taking few more combination of whole numbers.

1. Is $(16 - 4) - 2 = 16 - (4 - 2)$? Is there on associative property for division? Discuss with your friends. Think of $(28 - 14) - 2$ and $28 - (14 - 2)$.

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Exercise 2 1

1. Write the next three natural numbers after 10999.

2. Write the three whole numbers occurring just before 10001.

3. Which is the smallest whole number?

4. How many whole numbers are there between 32 and 53?

5. Write the successor of :

2440701

6. Write the successor of :

100199

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7. Write the successor of :

1099999

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8. Write the successor of :

2345670

9. In each of the follwing pairs of numbers,state which whole number is on the left of the other number on the number line .Also write them with the appropriate sign(>,<) between them.

530, 502

10. In each of the follwing pairs of numbers,state which whole number is on the left of the other number on the number line .Also write them with the appropriate sign(>,<) between them.

370,307`

11. In each of the follwing pairs of numbers,state which whole number is on the left of the other number on the number line .Also write them with the appropriate sign(>,<) between them.

98765,56789`.

12. In each of the follwing pairs of numbers,state which whole number is on the

left of the other number on the number line .Also write them with the appropriate sign(>,<) between them.

9830415,10023001.`

13. Which of the following statement true(T) and which are false (F)?

Zero is the smallest natural number.

14. Which of the following statement true(T) and which are false (F)?

400 is the predecessor of 399.

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15. Which of the following statement true(T) and which are false (F)?

Zero is the smallest whole number.

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16. Which of the following statement true(T) and which are false (F)?

600 is the successor of 599.

17. Which of the following statement true(T) and which are false (F)?

All natural numbers are whole numbers.

18. Which of the following statement true(T) and which are false (F)?

All whole numbers are natural numbers.

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19. Which of the following statement true(T) and which are false (F)?

The predecessor of a two digit number is never a single digit numbers.

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20. Which of the following statement true(T) and which are false (F)?

1 is the smallest whole number

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21. Which of the following statement true(T) and which are false (F)?

The natural number 1 has no preecessor.

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22. Which of the following statement true(T) and which are false (F)?

The whole number 1 has no predecessor.

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23. Which of the following statement true(T) and which are false (F)?

The whole number 13 lies between 11 and 12.

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24. Which of the following statement true(T) and which are false (F)?

The whole number 0 has no predecessor

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25. Which of the following statement true(T) and which are false (F)?

The successor of a two digit number is always a two digit number.

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1. Find the sum by suitable rearrangement.

$837 + 208 + 363.$

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2. Find the sum by suitable arrangement.

$1962 + 4531538 + 647$

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3. Find the product by a suitable rearrangement.

$2 \times 1768 \times 50.$

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4. Find the product by a suitable rearrangement.

$4 \times 166 \times 25.$

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5. Find the product by a suitable rearrangement 8 x291 x 125.

6. Find the product by a suitable rearrangement.625 x 279 x 16`.

7. Find the product by a suitable rearrangement.285 x 5 x 60.

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8. Find the product by a suitable rearrangement.125 x 40 x 8 x 25`.

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9. Find the value of the following:

$$297 \times 17 + 297 \times 3$$

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10. Find the value of the following :

$$54279 \times 92 + 8 \times 54279.$$

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11. Find the value of the following :

$81265 \times 169 - 81265 \times 69.$

12. Find the value of the following :

$3845 \times 5 \times 782 + 769 \times 25 \times 218.$

13. Find the product,using suitable properties.

$738 \times 103.$

14. Find the product,using suitable properties.

$854 \times 102.$

15. Findthe product,using suitable properties.

$258 x 1008$

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16. Find the product using suitable properties.

1005×168

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17. A taxi- driver filled his car petrol tank with 40 litres of petrol on Mondy.The next day,he filled the tank with 50 litres of petrol.If the petrol costs Rs.44 per litre,how much did he spend in all on petrol?

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18. A vendor supplies 32 litres of milk to a hotel in the morning and 68 litres of mik in the

evening.If the milk costs Rs.15 Per litre,how much money is due to the vendor per day?

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19. Match the following:

(i)	$425 \times 136 = 425 \times (6 + 30 + 100)$	(a) Commutative under multiplication
(ii)	$2 \times 49 \times 50 = 2 \times 50 \times 49$	(b) Commutative under addition
(iii)	$80 + 2005 + 20 = 80 + 20 + 2005$	(c) Distributivity of multiplication over addition

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Exercise 2 3

1. Which of the following will not represent zero?

a) $1 + 0$

b) $2 + 3$

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2. Which of the following will not represent zero?

$0 \times 0 =$

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3. Which of the following will not represent zero?

$$\frac{0}{2} =$$

4. Which of the following will not represent zero?

$$\frac{10 - 10}{2}$$

5. If the producto of two whole numbers is zero can we say thatone or both of them will be zero ?Justify through examples.

6. If the product of two whole numbers is 1,can we say that one or oth of them will be 1 ? Justify through examples.

7. Find by distributivity method:

728×101

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8. Find using distributive property.

5437×1001

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9. Find by distributivity method:

824×25

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10. Find by distributivity method:

4275×125

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11. Find by distributivity method:

$504 \times 35.$

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1. Number of whole numbers between 48 and 78 is

A. 30

B. 29

C. 31

D. N/A

Answer:

2. Product of successor and predecess or of largest 3-digit number is

A. 1998

B. 998000

C. 999000

D. N/A

Answer:

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3. The identity for the multiplication of whole numbers is

A. 0

B. 1

C. $1 + 0$

D. N/A

Answer:

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4. The successor of 1 million is

A. 1000001

B. 100001

C. 10001

D. N/A

Answer:

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5. Which of the following is not true

A. 0 + 0 =0

B. $0 \times 0 = 0$

C. $0/0 = 0$

D. N/A

Answer:

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6. Natural numbers are not closed under

A. Addition

B. Multiplication

C. Subtraction

D. N/A

Answer:

7. Using dot (.) pattern, which of the following numbers can be arranged in all the three ways i.e., line, triangle and a rectangle?

A. 10

B. 11

C. 12

D. N/A

Answer:

8. 1000 is predecessor of

A. 999

B. 1000

C. 1001

D. N/A

Answer:

9. The number which is less than every natural number

A. 0

B. 1

C. 2

D. N/A

Answer:

▶

10. Of the given whole numbers are 927 and 920, the number 920 lies on which side of the number 927 on the number line

A. left side

B. right side

C. none of these

D. N/A

Answer:

11. Correct the statements

Every whole number is a natural number.

12. State whether the statement is true or not

Identity for addition of whole number is 1.

13. State whether the statement is true or not

There exists the largest natural number.

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14. Difference between successor of largest 4-digit number and the successor of smallest.

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15. State whether the statement is true or not

Predecessor of 61 is 60.

16. Represent the following on the number line.

$6 - 4$

17. Represent the following on the number line.

3×4

18. Represent the following on the number line.

2×7

19. Match the following:

(a)	$2 \times 1898 \times 50$	(i) zero
(b)	675×125	(ii) does not exist
	$= 675 \times (100 + 25)$	
(c)	The greatest whole number	(iii) 29
(d)	Additive identity	(iv) Commutativity under addition
(e)	Whole numbers between 21 and 51	(v) 189800
(f)	$20 + 198 + 80 = 20 + 80 + 198$	(vi) Distributivity

20. Find if subtraction is commutative for the whole numbers 4234 and 2876.

Additional Questions For Practice Short Answer Type Questions

1. Solve using the suitable rearrangement.

$250 \times 60 \times 8 \times 50$

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2. Solve using the suitable rearrangement.

$125 \times 7594 \times 8$

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3. Solve using the suitable rearrangement.

$437 + 663 + 205$

4. Solve using the suitable rearrangement.

$1063 + 548 + 1937 + 552$

5. Find the value of the following:

$$394 \times 93 + 394 \times 7$$

6. Find the value of the following:

$$4265 \times 173 - 4265 \times 73$$

7. Find the value of the following:

$795 \times (999 + 1)$

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8. Find the value of the following:

$597 \times 10 + 6410541 \times 5970$

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9. Observe the pattern in the following and write the next steps.

$9 \times 9 + 7 = 88$

$98 \times 9 + 6 = 888$

$987 \times 9 + 5 = 8888$

$9876 \times 9 + 4 = 88888$

?

10. Observe the pattern in the following and write the next steps.

$1 + 3 = 2 \times 2$

$1 + 3 + 5 = 3 \times 3$

$1 + 3 + 5 + 7 = 4 \times 4$

$1 + 3 + 5 + 7 + 9 = 5 \times 5$

?

11. Observe the pattern in the following and write the next steps.

$$1 = \frac{1 \times 2}{2}$$

$$1 + 2 = \frac{2 \times 3}{2}$$

$$1 + 2 + 3 = \frac{3 \times 4}{2}$$

$$1 + 2 + 3 + 4 = \frac{4 \times 5}{2}$$

?

12. Observe the pattern in the following and write the next steps.

$1 \times 8 + 1 = 9$

$12 \times 8 + 2 = 98$

$123 \times 8 + 3 = 987$

$1234 \times 8 + 4 = 9876$

?

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13. Represent the following on the number line.

$7 + 5$

Additional Questions For Practice Long Answer Type Questions

1. Find the product using distributivity:

397×102

2. Find the product using distributivity:

1862×99

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3. Find the product using distributivity:

397×102

▶ **Watch Video Solution**

4. Find the product using distributivity:

397×102

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5. Check the associativity property for 324,193 and 107.

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Additional Questions For Practice Hots High Order Thinking Skills

1. Use the dot pattern to show

Rectangular number is square number

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2. Use the dot pattern to show

Triangular number is a square number

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3. Use the dot pattern to show

Rectangular number is a triangle number

Sample Paper For Practice

1. The difference between the successor and

predecessor of a number is

   A. 0

B. 1

C. 2

D. N/A

Answer: C

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2. If the product of two numbers is zero, one of the numbers is 100 then the other number is

A. 0

B. 100

C. none of these

D. N/A

Answer: A

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3. Number of whole'numbers lying between 0

and 100 are

A. 100

B. 99

C. 98

D. N/A

Answer: C

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4. Predecessor of one-lakh is

A. 10001

B. 100001

C. 99999

D. N/A

Answer: C

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5. Fill in the blanks:

Smallest 4-digit number is the successor

of_number.

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6. Fill in the blanks

_____is the identity for the addition of whole numbers.

7. Any non-zero whole number divided by itself gives the quotient_____

8. Difference between two consecutive whole

numbers is _____

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9. State whether true or false. Give reason.

Every whole number has its predecessor.

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10. State whether true or false. Give reason.

Predecessor of a 2-digit number is a 2-digit number.

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11. Determine the sum of $3 + 4 + 5 + 45 + 46 + 47$ by suitable rearrangement.

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12. Use the dot pattern to show

Triangular number is a square number

▶ **Watch Video Solution**

13. Find 18×25 using associative property of

multiplication,

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14. Find $24 + 37 + 76$ in two different ways.

15. Find 324×102 using distributivity.

16. Represent the following on the number line

4

(a) 4 more than 3

(b) 2 less than 5.