Chapter- 5

Natural Numbers and Whole Numbers

QUESTION BANK

1. Answer True or False

(i) Every natural number is a whole number.

(ii) Every whole number is a natural number

(iii) The whole number 1 has 0 as predecessor.

(iv)The difference of any "two" consecutive whole numbers is 2.

v) The successor of 9999 is 1000.

vi) 500 is the predecessor of 499.

vii) If a and b are any two whole numbers, then a + b is not a whole number.

viii) If a and b are any two whole numbers, then a + b = b + a.

ix) 0 + 18 = 18 + 0.

2.Answer the following questions:

(i) The counting numbers are also called ………….

(ii) The predecessor of a number is obtained by ………….

(iii) The predecessor of 1 is the whole number.........

(iv)Smallest natural number is……………….

(v) Smallest whole number is…………

(vi) Largest natural number is……………..

(vii) Largest whole number is…………..

(viii) All natural numbers are…………

(ix) All whole numbers are not…………..

(x) Successor of 4099 is…………..

(xi) Predecessor of 4330 is…………..

3. Write the successor of:

(i) 197   (ii) 1538   (iii) 10889   (iv) 79999

4. Write the predecessor of:

(i) 80   (ii) 7890   (iii) 13586   (iv) 10000

5. The sum of the successor and predecessor of 100 is :

(a) 101   (b) 199   (c) 200   (d) 11113

6. Determine the sum of the four numbers as given below:

(a) successor of 32   (b) successor of the successor of 67

(c) Predecessor of 49   (d) predecessor of the predecessor of 56.

7. Starting from the least even natural number, state the sum of the first four even numbers

8. Subtract the successor of 99 from the predecessor of 201.

9. (i) 229 x ……. = 578 × 229

  (ii) 32 x 15 = 32 x 6 + 32 x 7 + 32 x ….

 (iii) 23 x 56 = 20 x 56 + …….. x 56

 (iv) 83 x 54 + 83 x 16 = 83 x (.. ..) = ……..

  (v) 98 x 273 -75 x 273 = (.. …) x 273 = ……

10. By re-arranging the given numbers, evaluate :

    (i)   2 x 487 x 50

    (ii)   25 x 444 x 4

    (iii)   225 x 20 x 50 x 4

11. Use distributive law to evaluate :

(i) 984 x 102   (ii) 385 x 1004   (iii) 446 x 10002

12. Evaluate using properties:

 i) 548 x 98

ii) 924x997

iii) 3002x 723

13. Evaluate using properties:

(i) 679 x 8 + 679 x 2

(iii) 55873 x 94 + 55873 x 6

(v) 8324 x 1945 - 8324 x 945

14. Find the product of

i) The greatest number of three digits and smallest number of 5 digits

ii) The greatest number of 4 digits and greatest number of 5 digits.

15. Show that:

   i) division of whole numbers is not closed.

   ii) any whole number divided by 1, always gives the number itself.

   iii) every non-zero whole number divided by itself gives 1 (one).

   iv) zero divided by any non-zero number is zero only.

(v) a whole number divided by 0 is not defined.

For each part, given above, give two suitable examples.

16. If x is a whole number such that x ÷ x= x, state the value of x.

17. Find the difference between the largest number of four digits and smallest number of six digits.

18. Find the difference between the smallest number of eight digits and the largest number of five digits.

19. The product of two numbers is 528. If the product of their units digits is 8 and the product of their tens digit is 4; find the numbers.

20. Does there exist a number a such that a ÷ a = a ?

21. Divide 5936 by 43 to find the quotient and remainder. Also, check your division by using the formula, dividend = divisor x quotient + remainder.

22. Write the identity number, if possible for subtraction.

23. Write the inverse, if possible for subtraction of whole numbers?

24. (16 – 8) x 24 = ………….. = …………..

16 x 24 – 8 x 24 = …….. – ……….. = ………..

Is (16 – 8) x 24 = 16 x 24 – 8 x 24? …………..

Is the type of result always true? ………….

Name the property used here ………………

25. I am a five digit number. My ones digits is 3. My hundreds digit is 2 times my ones digit. My tens digit is the sum of ones digit and hundreds digit. My thousands and ten thousands digit is one less than hundreds digit.

(a) What number am I?   (b) Write my successor.

(c) Am I greater than or less than the number, "fifty five thousand nine hundred thirty six"?

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