GRADE -5   **WORK SHEET -   MATHEMATICS**   **2024-25**

CHAPTER -4   **Factors and Multiples**

Name :…………………………….   **Date:………………..**

MCQ;

1) Which among the following is an even prime number.

  a) 2   b)4   c) 5   d) 12

2)   24 is the multiple of

  a) 7   b) 5   c) 9   d) 12

3) The H.C.F of   18 and   42 is

 a) 2   b)4   c) 6   d) 9

4) The prime number between 20 and 28 is

   a) 23   b)21   c) 25   d) 27

5) A   prime number has exactly …………factors.

  a) 1   b)2   c) 3   d)more than 3

FILL IN THE BLANKS :

1. One is a factor of _____ numbers.
2. Every number is a _____ of itself.
3. In 5 x 3 = 15, 5 and 3 are _____ of the multiple _____.
4. Numbers having only two factors are called _____ numbers.
5. Write all the factors of 64: _____

6) The smallest factor of a number is ……………

7)The common factors of 14 and 16 are ………. , …………

8)A number is divisible by………if the last digit is 0 or 5.

9) The prime factorization of 48 is …..x ….x ….x…..x……

10)The H.C.F of 24,36,48 is …………………

11) The L.C.m of 30,42 is………………..

12) product of two numbers = ………… x …………….

State TRUE/FALSE :

a) The numbers which has exactly two factors 1 and the the number itself are called composite numbers .

b) 2 is the only even prime number-

c) The L.C.M of 16,24 and 48 is 48 .

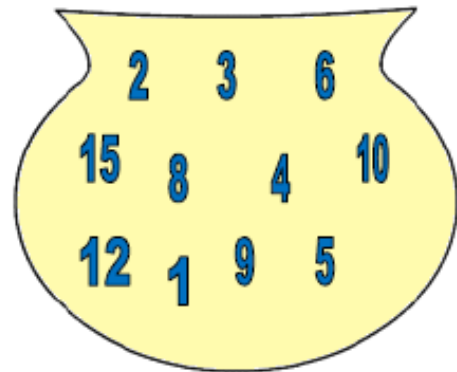d) The H.C.F of 12.18 and 35 is 1 .

MATCH THE FOLLOWING :

SECTION A	SECTION B
a) 1 is ……………..	1) product of the numbers
b) The greatest factor of a number is the……itself	2) prime
c) The H.C.F of 12, 18 and 25 is	3) multiples
d) …………….of a number are countless	4) number
e) A number which has only two factors is called ………..	5) unique
f) H.C.F × L.C.M of two numbers =	6)1

ANSWER THE FOLLOWING QUESTIONS

1) **Activity game: 1**

Using the numbers from the earthen pot, find pairs that multiply together to give the following numbers then find the factors of given number:

(i)   36 (3 x 12, 4 x 9)

       So 3, 4, 9 and 12 are factors of 36.

       36 is the multiple of all these numbers.

(ii)   18

(iii) 24

(iv) 30

2) **Activity game: 2**

GAME: First player chooses a number from the grid and circle it. This number is the score of first player.

Then its partner encircles all the possible factors of that number with different colours. The sum of those factors is the partner's score for first round.

In next round the partner encircles a number and the first player circles the factors. The game ends when there are no more numbers left to circle. The player with the larger sum of factors is the winner.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50

3) Find the prime factors by making a factor tree.
    a) 60   b) 96   c) 63   d)48

4)Find the common factors and H.C.F :
  a) 6,12

  factors of 6   :…………………………….

   Factors of 12:…………………………

   Common factors : …………………………….

   H.C.f of 6,12   = ……………………

5)   Find the H.C.F of   a)26,52   b) 24,36,48   c) 35,55,65

6)   Find the H.C. by prime factorization method :

a) 16,26 b) 42,84   c) 63,99   d) 40,58

7) Find the L.C.M of 3,4 using the number line.

8) Find the L.C.M by prime factorization method:
  a) 12,15   b) 20,25

9) Find the L.C.M by division method:

    a)49,63   b) 24,32,88

10)Find the smallest number which when divided by 10 and 15 leaving no remainder.

11) The product of two numbers is 300.if their H.C.f is 50,find their L.c.M.

12)The product of H.C.F and L.C.M of two numbers is 384.If one of the numbers is

  24 ,find the other number?

13) Complete the factor Tree.