



GRADE -5

Q.B - 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) 27 is the multiple of
a) 7 b) 5 c) 9 d) 12
- 3) The H.C.F of 36 and 54 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 exactlyfactors.
a) 1 b)2 c) 3 d)more than 3

FILL IN THE BLANKS :

- 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 isxxx.....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 \times L.C.M of two numbers =	6)1

ANSWER THE FOLLOWING QUESTIONS

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

2)Find the common factors and H.C.F :
a) 24,40

factors of 24 :.....

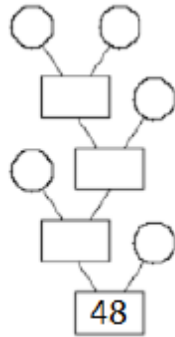
Factors of 40:.....

Common factors :

H.C.f of 24, 40 =

3. Find the H.C.F of a) 26, 52 b) 24, 36, 48 c) 35, 55, 65
4. List the prime factors of each number
 - a. 68 b. 196 c. 305 d. 406
5. Find the HCF by the prime factorization method.
 - a. 24, 56 b. 54, 198 c. 102, 68
 - d. 1024, 576 e. 405, 513
- 6) Find the L.C.M of 3, 4 using the number line.
7. Find the LCM by the prime factorisation method. a. 32 and 48 b. 207 and 138
8. Find the LCM by the division method. a. 16, 24, 40 b. 72, 96, 120 c. 36, 27, 18
9. Find the lowest number which is exactly divisible by 18 and 24.
10. Find the greatest number which exactly divides 40, 48 and 60.
- 11) Find the smallest number which when divided by 10 and 15 leaving no remainder.
- 12) The product of two numbers is 300. If their H.C.f is 50, find their L.C.M.
- 13) 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?
14. The LCM of two numbers is 60. If the product of the numbers is 180, find their HCF.
15. The HCF of two numbers is 6. If the product of the numbers is 42, find the LCM of the numbers.

16) Complete the factor Tree.



17. Two wires are 12 m and 16 m long. The wires are to be cut into pieces of equal lengths. Find the maximum length of each piece.

18. Ruchi has 24 red candles and Maya has 18 green candles. They want to arrange the candles in such a way that each row contains an equal number of candles.

What is the greatest number of candles that can be arranged in each row?

19. 210 oranges, 252 apples and 294 pears are equally packed in cartons so that no fruit is left. What is the greatest possible number of cartons needed?

20. A shopkeeper sells candles in packets of 12 and candle stands in packets of 8.

What is the least number of candles and candle stands Asha should buy so that there is one candle for each stand?

21. Sheba can jump 4 steps at a time and Nina can jump 5 steps at a time. On which step will they meet if they both start jumping at the same time?

22. Maria has dance class every 2nd day and painting class every 3rd day. On which day will she have both classes?