

INTERNATIONAL INDIAN SCHOOL BURAI DAH

Worksheet for the Academic Year 2023-24

CLASS: 5th SUBJECT: MATHS DATE: 07/09/2023

LESSON: 3- FACTORS AND MULTIPLES

1. Fill in the blanks:

- a) Numbers which have more than two factors are called _____ numbers.
- b) A number is divisible by 5, if the digit in its ones place is _____ or _____.
- c) _____ is a factor of every number.
- d) Every multiple of a number is _____ than or equal to that number.
- e) _____ is the only even prime number.
- f) Two numbers which have no common factors other than 1 are called _____ numbers.

2. Choose the correct option:

- a) Numbers which have only two factors are called
 - i) composite numbers ii) prime numbers iii) coprime numbers
- b) The smallest odd prime number is
 - i) 1 ii) 2 iii) 3
- c) A number is divisible by 6 if it is divisible by
 - i) 3 and 4 ii) 3 and 5 iii) 2 and 3
- d) The HCF of 10 and 25 is
 - i) 1 ii) 5 iii) 25
- e) The prime factorisation of 30 is
 - i) $2 \times 3 \times 5$ ii) 5×6 iii) 10×3

3. Test each of the following numbers for divisibility by i) 2 ii) 10

- a) 4530 b) 12568

4. Draw the factor tree of the following numbers:

- a) 90 b) 150 c) 35

5. Test each of the following numbers for divisibility by i) 3 ii) 5 iii) 11

- a) 1475 b) 46299 c) 7755

6. Find the prime factorisation of the following numbers:

- a) 48 b) 135

7. Check if the following numbers are coprime or not.

- a) 24 and 36 b) 18 and 35

8. Find the HCF of the following numbers by short division method.

- a) 18, 27, 54 b) 15, 20, 60 c) 125, 100

9. Find the LCM of the following numbers by short division method.

- a) 6, 144, 126 b) 55, 121, 165 c) 40, 55

10. Solve:

a) Find the greatest number which divides 120 and 208 exactly.(ans: 8)

b) Find the least number which is divisible by 12, 15 and 18. (ans: 180)

c) Three juice jars contain 34litres, 68litres and 204litres of juice respectively. Find the maximum capacity of a jar that can measure the juice of the three containers exact number of times. (ans: 34L)
