Worksheet-13	Subject: - Mathematics	Class: - VI	Teacher: - Mrs. Poonam Sunil
Name:	Class & Sec:	Roll No	Date: 15.05.2020

Good morning Students! (First listen to audio message then write) In the previous class I have explained you about factor. Today I will talk about factor and multiples. We can say that a number is a multiple of each of it factor. (Note down now)

The length of the strip at the top is  $3 = 1 \times 3$  units, the length of the strip below it is 3 + 3 = 6 units.

We say that the numbers. 3, 6, 9, 12, 15 are multiples of 3

Multiples of a number is greater than or equal to the number.

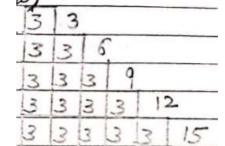
Let us conclude about factors and multiples

- 1. 1 is a factor of every number.
- 2. Every number is a factor of itself.
- 3. Every factor of a number is an exact divisor of that number.
- 4. Every factor is less than or equal to the given number.
- 5. Number of factor of a given number are finite.
- 6. Every multiple of a number is greater than or equal to that number
- 7. The number of multiples of a given number is infinite.
- 8. Every number is a multiple of itself.

**Example** 1: Write all the factor of 68

Solution: We note that  $68 = 1 \times 68$  $68 = 2 \times 34$  $68 = 4 \times 17$ Factors of 68 are 1, 2, 4, 17, 34, and 68 **Example** 2: Find the factors of 36

Solution:  $36 = 1 \times 36$   $36 = 2 \times 18$   $36 = 3 \times 12$   $36 = 4 \times 9$   $36 = 6 \times 6$ All the factors of 36 are 1, 2, 3, 4, 6, 9, 12, 18, and 36 **Example** 3: Write first five multiples of 6 Solutions:  $6 \times 1 = 6, 6 \times 2 = 12, 6 \times 3 = 18, 6 \times 4 = 24, 6 \times 5 = 30$ Multiples of 6 are 6, 12, 18, 24 and 30



Page | 2

Q1: Write all the factors of the following numbers.

a) 24 b) 15 c) 21  $24 = 1 \times 24$  $15 = 1 \times 15$  $21 = 1 \times 21$  $24 = 2 \times 12$  $21 = 3 \times 7$  $15 = 3 \times 5$  $24 = 3 \times 8$ Factors of 15 are 1, 3, 5 and 15 Factors of 21 are 1, 3, 7 and 21  $24 = 4 \times 6$ Factors of 24 are 1, 2, 3,4, 6, 8, 12 and 24. d) 27 e) 12 f) 20  $27 = 1 \times 27$  $12 = 1 \times 12$  $20 = 1 \times 20$  $27 = 3 \times 9$  $12 = 2 \times 6$  $20 = 2 \times 10$ Factors of 27 are 1, 3, 9 and 27  $12 = 3 \times 4$  $20 = 4 \times 5$ Factors of 12 are 1,2, 3,4,6 and 12 Factors of 20 are 1, 2, 4 5,10 and 20 g) 18 h) 23 i) 36  $18 = 1 \times 18$  $23 = 1 \times 23$  $36 = 1 \times 36$  $18 = 2 \times 9$ Factors of 23 are 1 and 23  $36 = 2 \times 18$  $18 = 3 \times 6$  $36 = 3 \times 12$  $36 = 4 \times 9$ Factors of 18 are 1, 2, 3, 6, 9 and 18  $36 = 6 \times 6$ Factors of 36 are 1, 2, 3, 4, 6, 9, 12, 18 and 36 Q2: Write first five multiples of: a) 5 b) 8 c) 9 Solution: a) First five multiples of 5 are 5, 10, 15, 20 and 25 b) First five multiples of 8 are 8, 16, 24, 32 and 40 c) First five multiples of 9 are 9, 18,27, 36 and 45 × ----- ×

Today's class is over. Next I will meet you on Tuesday. I hope you understood factors and multiples. Good Bye Children! (Stay Fit and Stay Healthy) We love you children.