STEPPING STONE SCHOOL (HIGH)

CLASS: V

Subject: Mathematics **Date:17 /06/2020**

Topic: Chapter 4(Multiples and Factors)

Time Limit: 30 Mins

Worksheet No. 19

[Copy the questions following the notes and solve them on a sheet of paper datewise. Keep the worksheets ready in a file to be submitted on the opening day.]

Instruction:- Children, here is a video link given below to develop the concept of prime numbers and composite numbers.

https://youtu.be/qFFYaiw-N-I

Children let us learn the concept of prime numbers and composite numbers today

Prime number:- A number which is divisible only by itself and one is known as prime number

Composite number:- Any number which is not prime is a composite number

For example let us consider the numbers from 1 to 20 and find out which numbers are prime and which numbers are composite

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20

Here the prime numbers are highlighted with yellow and composite numbers are highlighted with blue.

N.B.:- Also note that **1** is neither prime nor composite and **2** is the only even prime number

Co-prime numbers:- Two numbers that have only 1 as a common factor is known as co-prime numbers. For example, (2,3) (3,4) (5,6) (4,5) (18,35) (8,15)

Twin prime number:- Any two prime numbers whose difference is two are called twin prime numbers. Pairs of twin prime between 1 and 100:-

(3,5), (5,7), (11,13),(17,19),(29,31), (41,43),(59,61), and (71,73)

- A prime number is only divisible by 1 and the number itself.
- A composite number has at least one factor other than 1 and the number itself.
- Two numbers that have only 1 as a common factor are known as coprime numbers.
- All pairs of prime numbers are coprime numbers.
- Pairs of composite numbers may also be coprime numbers.
- The number 1 is neither prime nor composite.

Now let us try to do the following exercise

Q1)Which of the following set of numbers are co-prime numbers?

a. 7 and 8
b. 88 and 99
c. 51 and 76
d. 46 and 87
e. 197 and 199

Q2) For each of the following numbers, find a composite number that is co-prime to the given number.

a. 80
b. 63
c. 135
d. 88
e. 52

f. 81
g. 256
h. 216
i. 294
j. 1155