Worksheet # 1	Prime and composite numbers, HCF and LCM of numbers

Q1. Mark the given statements as true or false.

(a) Composite numbers have more than 2 factors.   T / F

(b) Each prime number has exactly 3 factors.   T / F

(c) 33 is a composite number.   T / F

(d) Every prime number except 2 is odd.   T / F

(e) 10 is a factor of 12.   T / F

(f) 5 and 6 is a factor pair of 30.   T / F

(g) 2 is the smallest prime number.   T / F

(h) 2 is a factor of all odd numbers.   T / F

(i) Factors of a number are countable.   T / F

(j) LCM stands for least common factor.   T / F

(k) First common multiple of 2 and 5 is 10.   T / F

Q2. Choose the correct answer.

i)The product of two natural numbers is called:

    (a) Factor   (b) Divisor   (c) Multiple

ii) Multiples of a number are:

    (a) Countable   (b) Uncountable   (c) smaller than the number

iii)_____is the smallest number which is divisible by the given numbers.

    (a) HCF   (b) LCM   (c) Factor

iv) Which one of the following numbers is the multiple of every number?

    (a) 0   (b) number itself   (c) 1

v)   1,2,3,4,6,12 are the factors of:

    (a) 12   (b)14   (c) 6

vi) ____ is the smallest composite number.

    (a) 2   (b)3   (c) 4

vii) 37 is a/an _____ number

    (a) even   (b)prime   (c) composite

viii) The greatest prime number less than 20 is :

    (a) 17   (b) 18   (c) 19

Q3. Read the questions carefully whose answers are given below.

Drag the correct answer and drop it in the respective blank.

| 18, 36, 27, 45 | 1,3,11,33 | 16 ,36, 12, 32 | 1 | 30 , 45 | 7, 14 | 15 |

(a) Which numbers have 4 as their common factor?   _____

(b) Which numbers are multiples of 9?   _____

(c) Which numbers have 5 as a factor?   _____

(d) What are the factors of 33?   _____

(e) What are first 2 multiples of 7?   _____

(f) What is the LCM of 3 and 5?   _____

(g) What is the HCF of 3 and 5?   _____

Q4. Find the LCM of 3,4 and 6 by using the first 10 multiples of each number given below.

Multiples of 3: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30

Multiples of 4: 4, 8, 12, 16, 20, 24, 28, 32, 36, 40

Multiples of 6: 6, 12, 18, 24, 30, 36, 42, 48, 54, 60

Common Multiples: _____

Least common multiple (LCM of 3,4and 6): _____

Q5. The factors of 18 & 30 are given below. Find the HCF by writing the common factors.

Factors of 18: 1,2,3,6,9,18

Factors of 30: 1,2,3,5,6,10,15,30

Common factors: _____

Highest common factor (HCF of 18 and 30):_____