

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 3,4 and 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): _____