CHAPTER-3 PLAYING WITH NUMBERS

WORKSHEET-CLASS 6

MODULE-1/2

FILL IN THE BLANKS

1. The number of factors of a number are_____and multiples of a number are_____

2. Two consecutive odd prime numbers are known as_____

3. A set of three consecutive prime numbers differing by 2 is called a _____

4. Two numbers are said to be_____if they do not have a common factor other than 1.

5. The smallest composite number is_____

6. _____is neither a prime number nor a composite number

7. A number for which sum of all its factors is equal to twice the number is called a _____

WRITE THE CORRECT ANSWER

8. HCF of two consecutive even numbers is

    a) 1   b)2   c)3   d)4

9. LCM of two Prime numbers is

    a) their sum

    b) their difference

    c)their product

    d)none of these

10. The fundamental theorem of Arithmetic states that:

a) every number greater than 1 has many factors.

b) every number greater than 1 has exactly one Prime factorization.

c) every number greater than 1 has many multiples.

d) none of these.

11. The prime factorisation of 126 is

a)2 x 2 x 3 x 6   b) 2 x3 x 3 x7   c) 2x 3 x 3x 4   d) none of these.

12. Write all prime numbers between1 and 50.

13. Express the following as the sum of twin primes

a)84   b)36   c)24   d)42

14. Express the following as the sum of two odd primes

a)36   b)68   c)24   d) 42

15. a) Express 71 as the sum of three odd primes.

   b) Express 24 as the sum of twin Primes.

   c)Find all Prime numbers between 70 and 90.

16. Write the factors of each of the following numbers

a) 24   b) 300   c) 225

17. Write first five multiples of each of the following numbers

a) 12   b) 36   c) 18

18. Write all prime numbers between

a) 20 and 40   b) 80 and 100

19. Express each of the following numbers as the sum of two odd primes

a) 45   b) 39   c) 64

20. Express each of the following numbers as the sum of three odd primes

a) 63   b) 53   c) 15

21. Express each of the following as the sum of twin primes

a) 36   b) 84

22. Find the common factors of

    a) 75, 60, 120   b) 72, 80   c) 18, 24, 30

23. Find the first five common multiples of

    a) 2 ,3 &5   b) 3,4 & 9   c) 5 & 7

24. Write all the composite numbers less than 35.