B.E.S.T. Group Of Schools, Saudi Arabia

Class: 6   Worksheet-2
Subject: MATHS

Examination:Half Yearly/PMT(2018)
(Block :6, 7 & 8)

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Fill in the blanks:

1) The smallest prime number is _____

2) 1 is neither _____ nor _____

3) A number which has only two factors is _____

4) The smallest composite number is _____

5) A number which has more than two factors is _____

6) The sum of two even numbers is always _____

7) The sum of odd numbers is always _____

8) The sum of an even and odd number is always _____

9) If 2 and 5 are factors then _____ is their multiple.

10) A number is a _____ of itself.

11) Two prime numbers with a gap of only one number between them is called ___

12) A number whose sum of the factors is equal to twice the number is called ___

13) Two numbers that have only 1 as their common factor is called _____

14) The HCF of twin primes is _____

15) The HCF of co-prime numbers is _____

16) The LCM of twin primes is equal to their _____

17) The LCM of co-prime numbers is their _____

Answer the following :

18) Find the prime factors of 24 using factor tree diagram.

19) Find all multiples of 7 between 80 and 100

20) Find the LCM of 8, 10 and 12 using prime factorization.

21) Find the LCM of 30 and 42 by division method.

22) Find the HCF 24 and 72 using continued division method.

23) Find the least number which when divided by 6, 15 and 18 leaves the remainder 5 in each case.

24) The HCF of two numbers is 3 and their LCM is 36. If one of the number is 12, what is the other number ?

25) Which of the following numbers are divisible by 2, 3 and 6.
   (a)726352, (b) 1790184, (c) 972132, (d) 20890, (f) 3311223.

26) Which of the following numbers are divisible by 11.
   (a)901153, (b)8783409, (c)300002, (d)90002.

27) Find the smallest number that must be added to 123 so that it becomes divisible by 3.

28) Write three 2-digit numbers using 3, 4 and 5. Check whether these numbers are divisible by 2, 3, 5, 6 and 9.

29) write 12345 in reverse order and test which numbers divide it exactly.

30) Write the smallest number to be subtracted from 256 to make it divisible by 10.

31) Determine whether 1944 is divisible by 72.

32) Write the factors of the following numbers (a) 50 (b) 36 (c) 7

33) Find the prime numbers between 1 and 50.

34) write three prime numbers using the digits 3,1,1

35) Express 36 as the sum of two odd prime numbers.

36) Write three pairs of twin primes below 20.

37) Express 53 as the sum of three odd prime numbers.

38) Write a prime number which on reversing its digits gives another prime number.

39) What is a perfect number ? Is 28 a perfect number ? How do you know ?

40) Find the LCM of 8, 10 and 12 using prime factorization.

41) Find the LCM of 30 and 42 by division method.

42) Find the HCF 24 and 72 using continued division method.

43) Find the least number which when divided by 6, 15 and 18 leaves the remainder 5 in each case.

44) The HCF of two numbers is 3 and their LCM is 36. If one of the number is 12, what is the other number ?

45) Shobha has two pieces of ribbon. One piece is 720 cm long and the other is 900 cm long. She wants to cut both these ribbons into strips of equal length that are as long as possible. How long should each strip be ?

46) Rohini the baker had 72 chocolates biscuits, 27 vanila biscuits and 54 orange buiscuts to be used to make gift packets. She had to make identical packets wit all the three varieties of buiscuits. What is the maximum number of identical gift packets that Rohini can make if she uses all the buiscuits ?

47) Rahul, Rita and Roshmi cycle everyday along a circular ring road. The take 8, 12 and 16 minutes respectively, to take a complete round. if all of them starts at the same time from the same place, after how much time will all three of them meet at the same place again ?

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