

SUMMATIVE ASSESSMENT 1

MATHEMATICS

CLASS VI

ASSIGNMENT NO. 3

CHAPTER: FACTORS AND MULTIPLES

Choose the correct option in question no. 1, 2, 3 and 4

Q.1 Unique number (number which is neither prime nor composite) is

- (a) 1 (b) 2 (c) 3 (d) 4**

Q.2 The greatest prime number between 1 and 100 is

- (a) 93 (b) 95 (c) 97 (d) 99**

Q.3 The HCF of two consecutive even numbers is

- (a) 2 (b) 3 (c) 4 (d) 5**

Q.4 A number for which sum of all its factors is equal to twice the number is called

- (a) Unique number (b) Composite no. (c) Perfect no. (d) None**

Q.5 Write all factors of each of the following numbers.

- (i) 60 (ii) 125 (iii) 729**

Q.6 Write first five multiples of each of the following numbers

- (i) 25 (ii) 35 (iii) 40**

Q.7 Write all prime numbers between

- (i) 10 and 50 (ii) 70 and 90**

- Q.8** Express each of the following numbers as the sum of two odd primes
(i) 36 (ii) 42 (iii) 84
- Q.9** Express each of the following numbers as the sum of three odd primes
(i) 31 (ii) 35 (iii) 49
- Q.10** Express each of the following as the sum of twin primes
(i) 36 (ii) 84
- Q.11** Find prime factorization of each of the following numbers
(i) 216 (ii) 420 (iii) 468 (iv) 945 (v) 7325
- Q.12** Write the smallest 4 digit number and express it as a product of primes.
- Q.13** Write the largest 4 digit number and give its prime factorization.
- Q.14** Which factors are not included in the prime factorization of a composite number.
(i) 144, 198 (ii) 81, 117 (iii) 225, 450 (iv) 150, 140, 210 (v) 84, 120, 138
- Q.15** Determine the HCF of the following numbers by division method
(i) 300, 450 (ii) 399, 437 (iii) 1045, 1520
- Q.16** Determine the LCM of the numbers given below
(i) 48, 60 (ii) 18, 17 (iii) 15, 30, 90 (iv) 56, 65, 85
- Q.17** The LCM and HCF of two numbers are 180 and 6 respectively. If one of the numbers is 30, find the other number
- Q.18** The HCF of two numbers is 16 and their product is 3072. Find their LCM