Playing With Numbers : Factors and Multiples

WorkSheet - 1

A. Select the correct answer :

1. 295650 is not exactly divisible by

   a. 2   b. 4   c. 5   d. 10

2. Without actual division, find which of the following numbers is divisible by 2, 3 and 5?

   a. 425   b. 4980   c. 7855   d. 308

3. Which of the following are co-primes?

    a. 9, 10   b. 4, 10   c. 15, 18   d. 16, 20

4. Which of the following are not twin primes?

    a. 5, 7   b. 3,5   c. 11, 13   d. 19, 23

5. If a number is divisible by both 3 and 8, then it must necessarily be divisible by

   a. 3 + 8   b. 8-3   c. 30   d. 3 x 8

6. Which of the following is divisible by 11?

   a. 4444444   b. 3333333   c. 22222222   d. 1111111

7. 75* is a three-digit number with as the missing digit.

If the number is divisible by 4, the smallest digit that can replace * is

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

8. What least number should replace * so that the number 857* is divisible by 8?

   a. 2   b. 4   c. 6   d. 8

9. The HCF of two consecutive natural numbers is

   a. product of two numbers   b. 0   c. 1.   d. 2

10. The HCF of two consecutive even numbers is

    a. 0   b. 1   c. 2   d. 4

11. The HCF of 72, 120 and 192 is

    a. 48   b. 6   c. 12   d. 24

B. Fill in the Blanks :

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

2. The product of two numbers is equal to the product of their _____ and _____

3. The only prime triplet known so far is _____

4. _____ is a two-digit number whose digits are same and add up to a prime.

5. The LCM of two consecutive numbers is equal to their _____

6. _____ is a factor of every number.

7. The smallest prime number is _____

8. _____ is the smallest composite number.

9. _____ is neither prime nor composite.

10. _____ is the only even prime number.

11. The greatest prime number between 1 and 10 is _____

12. The smallest odd composite number is _____

13. The largest prime number less than 100 is ____ .

14. The smallest number having four different primes is _____

15._____ is the HCF of two co-primes.

16. The HCF of two prime numbers is _____.

17. The HCF of 2 and an even number is _____ .

18. If the LCM of two numbers is 400 and their product is 6400, then their HCF is ____.

19. If a, b, c are three numbers such that LCM of a and b is b and LCM of b and c is c, then the LCM of

a, b and c is ____

C . Match the items in column I with the items in column II.

Column I	Column II
i. 14	a.Factor of 18
ii. 11	b. Multiple of 5
iii. 25	c. Factor of 22
iv. 6	d. Multiple of 7

Column I	Column II
i. A number divisible by 3 but not by 6	a. 35
ii. A number divisible by 4 but not by 8	b.40
iii. A number divisible by 5 but not by 10	c.27
iv. A number divisible by 4 and 8 but not by 16	d.12