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Chapter- 10

Factors and multiples

WORKSHEET

A. FILL IN THE BLANKS.

1. One is a factor of everyone.
2. two is the first even prime number.
3. The smallest multiple of a number is the Number itself
4. Zero (0) is a multiple of every number.
5. Prime numbers are having two numbers of factors.

B. CHOOSE THE CORRECT ANSWER.

6. Every number is a multiple of 1.

   a. 0 b. 1 c. 33 d. None

7. Composite numbers are the numbers having more than two factors i.e other than 1 and the number itself.

   a. 0 b. 1 c. 33 d. None

8. Every Prime number can be expressed as a product of all its prime factors.

   a. Prime b. Composite c. HCF d. None

9. Composite numbers are having more than two factors.

   a. 2 b. 1 c. 3 d. None

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10. When a particular number is a multiple of 2 or more numbers, it is called a

Common multiple.

a. LCM b. HCF ✓c. Common multiple d. None

C. ANSWER THE FOLLOWING QUESTIONS.

11. Write the first five multiples of 18.

18 = 18, 36, 54, 72, 90, 108

12. Find the HCF of 40, 50 and 60 by prime factorization method.

2 | 40	2 | 50	2 | 60
2 | 20	2 | 25	2 | 30
2 | 10	5	2 | 15
5		3

40 = 2 × 2 × 2 × 5
50 = 2 × 5 × 5
60 = 2 × 2 × 5 × 3

HCF = 2 × 5 = 10

13. Find the LCM of 36 and 52 by listing method.

36 = 36, 72, 108, 144, 180, 216, 252, 288, 324, 360
52 = 52, 104, 156, 208, 260, 312, 364, 416, 468, 520, 572, 624

14. Find the LCM of 15 and 90 by common division method.

5 | 15, 90
3 | 3, 18
3 | 1, 6
1, 2

LCM = 5 × 3 × 3 × 1 × 2 = 90

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