

Ch-13: Animals Jump

RECAP WORKSHEET

- 1) Write all the factors of 39 and 48
- 2) Write the common factors of 16 and 64
- 3) Factorise 36 by factor tree method.
- 4) Find the first five multiples of 6
- 5) Find the first three common multiples of 2 and 3
- 6) List the prime numbers between 70 and 100

WORKSHEET-1

- 1) Find the LCM of 4, 8, 10 by finding their common multiples.
- 2) Find the LCM by Prime factorisation method.
 - a) 45, 75, 90
 - b) 20 and 22
- 3) Find the LCM by division method.
 - a) 16, 36
 - b) 20, 60 and 80

WORKSHEET - 2

1) Factorise by prime factorisation method

a) 15

b) 48

2) Find the HCF by finding common factors

a) 16, 28

b) 55, 99

3) Find the HCF by prime factorisation method

a) 32, 42

b) 28, 78

4) Find the HCF by long division method

a) 198 and 360

b) 16, 32 and 48

CO-PRIME NUMBERS: Two numbers that have only 1 as the common factor are known as co-prime number. All the prime are co-prime numbers.

$$35 = 7 \times 5 \times 1$$

$$39 = 3 \times 13 \times 1$$

WORKSHEET-3

- 1) Which of the following are co-prime?
- a) 16 and 21
 - b) 24 and 39

RELATION BETWEEN HCF AND LCM

$$\boxed{1^{\text{st}} \text{ number} \times 2^{\text{nd}} \text{ number} = \text{HCF} \times \text{LCM}}$$

- $1^{\text{st}} \text{ no.} = (\text{HCF} \times \text{LCM}) \div 2^{\text{nd}} \text{ no.}$
- $2^{\text{nd}} \text{ no.} = (\text{HCF} \times \text{LCM}) \div 1^{\text{st}} \text{ no.}$
- $\text{HCF} = (1^{\text{st}} \text{ no.} \times 2^{\text{nd}} \text{ no.}) \div \text{LCM}$
- $\text{LCM} = (1^{\text{st}} \text{ no.} \times 2^{\text{nd}} \text{ no.}) \div \text{HCF}$

WORKSHEET- A

- 1) The HCF of two numbers is 28 and their LCM is 336. If one number is 112. Find the other number.
- 2) The LCM of two numbers is 60. If the product of the two numbers is 180. Find their HCF.
- 3) Find the HCF of 48 and 112 by finding their LCM.

WORKSHEET-5

WORD PROBLEMS

- 1) Find the greatest number that will divide 37, 50, 123 leaving remainder 1, 2 and 3 respectively.
- 2) Find the lowest number which is exactly divisible by 18 and 24.
- 3) Two bills of ₹ 6075 and ₹ 8505 respectively are to be paid separately by cheque of same amount. Find the largest possible amount of each cheque.
- 4) The traffic lights at different road crossings change after every 48 secs, 72 secs and 108 secs respectively. If they all change simultaneously at 8:20:00 hours. When will they again change simultaneously?