

MONTH : AUGUST

SESSION:1

CLASS : V

SUBJECT : MATHEMATICS

CHAPTER NUMBER: 8

CHAPTER NAME : FACTORS AND MULTIPLES

SUB-TOPIC : GCF OR HCF: LISTING METHOD

EXERCISE : 8 B Q.NO. 1,2,3

CHANGING YOUR TOMORROW

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Enable the students

- To Understand the concept of factors.
- To understand to find out common factors and highest common factor.



The GCF or HCF is the greatest whole number that is the common factor of given numbers.

Example : Find the H.C.F of 18 and 24

Method 1: Listing Method Factors of 18 = 1, 2, 3, 6, 9, 18Factors of 24 = 1, 2, 3, 4, 6, 8, 12, 24

The common factors are: 1,2,3 and 6

• The H.C.F is 6





LISTING METHOD



Example 2 : Find the H.C.F of 8, 12 and 30

Solution:

- ***** Factors of 8 = 1, 2, 4, 8
- ***** Factors of 12 = 1, 2, 3, 4, 6, 12
- ✤ Factors of 30 = 1, 2, 3, 5, 6, 10, 15, 30

The common factors are: 1, 2



EXERCISE : 8 [B]

1. Find the H.C.F of 27 and 36

Solution:

Factors of 27 = 1, 3, 9, 27

Factors of 36 = 1, 2, 3, 4, 6, 9, 12, 18, 36

Common factors of 27 and 36 are: 1, 3 and 9





EXERCISE : 8 [B]

2. Find the H.C.F of 82 and 104

> Solution:

Factors of 82 : 1, 2, 41, 82

Factors of 104: 1, 2, 4, 8, 13, 26, 52, 104

Common factor of 84 and 104 are: 1, 2

[•] The H.C.F is 2





EXERCISE : 8 [B]

3. Find the common factors and H.C.F of 20, 35 and 40

Solution:

Factors of 20: 1, 2, 4, 5, 10, 20

Factors of 35: 1, 5, 7, 35

Factors of 40: 1, 2, 4, 5, 8, 10, 20, 40

The common factors of 20, 35 and 40 are 1 and 5





➢Home assignment: Complete Ex.8 [B] Q.No.4 and 5 in the notebook.





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