

MONTH : AUGUST

SESSION:7

CLASS : V

SUBJECT : MATHEMATICS

CHAPTER NUMBER: 8

CHAPTER NAME : FACTORS AND MULTIPLES

SUB-TOPIC : RELATION BETWEEN H.C.F. , L.C.M. AND

NUMBERS, EXERCISE 8 D Q.NO.1

CHANGING YOUR TOMORROW

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Enable the students

- To Understand the concept of H.C.F. and L.C.M.
- To understand the relation between H.C.F. and L.C.M.



1. L.C.M. × H.C.F. = Product of the two numbers.

Explanation: Consider 6 and 8





STEP.1









 $L.C.M. \times H.C.F. = 24 \times 2 = 48$

Product of the two numbers = $6 \times 8 = 48$







ii. H.C.F. of two numbers =

Their product Their L.C.M.

The other number







EXAMPLE-1:

The H.C.F. of two number is 28 and their L.C.M. is 336. if one number is 112, find the other number.

Solution:





1. Find the H.C.F. and L.C.M. of the following numbers.

a. 576 and 1440





H.C.F. of 576 and 1440 = 288





1. Find the H.C.F. and L.C.M. of the following numbers.

a. 576 and 1440

L.C.M.		
2	576	6,1440
2	288	3,720
2	144	1,360
3	72	<u>, 180</u>
3	24	, 60
2	8,	20
2	4,	10
2	2,	5
5	1,	5
	1,	1



L.C.M. of 576 and $1440 = 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 3 \times 3 \times 5 = 2880$



1. Find the H.C.F. and L.C.M. of the following numbers.

b. 496 and 1116





H.C.F. of 496 and 1116 = 124



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1. Find the H.C.F. and L.C.M. of the following numbers.



Common multiples : $496 = 2 \times 2 \times 2 \times 2 \times 31$ $1116 = 2 \times 2 \times 3 \times 3 \times 31$

L.C.M. of 496 and 1116 = 2 × 2 × 31 × 2 × 2 × 3 × 3 = 4464





1. Find the H.C.F. and L.C.M. of the following numbers.

H.C.F.







H.C.F. of 270 and 450 = 90



1. Find the H.C.F. and L.C.M. of the following numbers.

c. 270 and 450







Common multiples : $270 = 2 \times 5 \times 3 \times 3 \times 3$ $450 = 2 \times 5 \times 5 \times 3 \times 3$

L.C.M. of 270 and $450 = 2 \times 5 \times 3 \times 3 \times 3 \times 5 = 1350$



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1. Find the H.C.F. and L.C.M. of the following numbers.

H.C.F.

d. 465 and 1116



H.C.F. of 465 and 1116 = 93





1. Find the H.C.F. and L.C.M. of the following numbers.





Common multiples : $465 = 5 \times 3 \times 31$ $1116 = 2 \times 2 \times 3 \times 3 \times 31$

L.C.M. of 465 and 1116 = 3 × 31 × 2 × 2 × 3 × 5 = 5580



1. Find the H.C.F. and L.C.M. of the following numbers.



H.C.F. of 408 and 1530 = 102

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1. Find the H.C.F. and L.C.M. of the following numbers.





Common multiples : $408= \begin{array}{c} 2 \times 2 \times 2 \times 3 \times 17 \\ 1530 = \begin{array}{c} 2 \times 5 \times 3 \times 3 \times 17 \end{array}$

L.C.M. of 408 and $1530 = 2 \times 3 \times 17 \times 2 \times 2 \times 5 \times 3 = 6120$



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1. Find the H.C.F. and L.C.M. of the following numbers.

f. 603 and 1608





H.C.F. of 603 and 1608 = 201



1. Find the H.C.F. and L.C.M. of the following numbers.



Common multiples : $603 = 3 \times 3 \times 67$ $1608 = 2 \times 2 \times 2 \times 3 \times 67$

L.C.M. of 603 and 1608 = 3 × 67 × 2 × 2 × 2 × 3 = 4824



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THANKING YOU ODM EDUCATIONAL GROUP

