

MONTH : AUGUST

SESSION:9

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. 5 TO 8

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.



5. The greatest number which divides 1155 and 3080 exactly is 385. find the least number which is divisible by 1155 and 3080

Solution:

The greatest number that divides 1155 and 3080 is 385.

Which means H.C.F. of 1155 and 3080 = 385

The least number which is divisible by 1155 and 3080 is L.C.M. of 1155 and 3080











1155 and 3080





 $L.C.M. = 5 \times 3 \times 7 \times 11 \times 2 \times 2 \times 2 = 9240$

• The least number divisible by 1155 and 3080 is 924



6. Find the greatest number that can divide 663 and 975 exactly.

The H.C.F. of 663 and 975 = 39

The greatest number which can divide 663 and 975 exactly is 39













7. Which is the greatest 3-digit number which is exactly divisible by 9 and 21.

The L.C.M. of 9 and 21 = 3 × 3 × 7 = 63



The greatest 3-digit number = 999

Let's find if 63 can divide 999 exactly







➤ The greatest 3-digit number which is exactly divisible by 63 = 999 - 54 = 945

The greatest 3-digit number which is exactly divisible by 9 and 21 is 945







8. Find the greatest 4-digit number which is exactly divisible by 12,32 and 48



The L.C.M. of 12, 32 and $48 = 2 \times 2 \times 2 \times 3 \times 2 \times 2 = 96$

1,1, 1

The greatest 4-digit number = 9999

Let's find if 96 can divide 9999 exactly





The greatest 4-digit number which is exactly divisible by 96 = 9999 – 15 = 9984

The greatest 4-digit number which is exactly divisible by 12, 32 and 48 is
9984









Home Assignment – Complete Exercise 8 D Q.No. 4,9 and 10 in your notebook.





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