Subject MATHS 02.07.2020

Class 5

Lesson 6 D Relation between HCF and LCM of Two Numbers

Dear students

Today I am giving you some solved questions of exercise 6D.see it carefully and note down on your copy and solve given questions.

Ex- 6 (D)

Solved Questions:-

Q-(1) The H.C.F of two numbers is 12 and their Product is 2160. Find their L.C.M.

Solve:→ We Know that

L.C.M of Two Numbers × H.C.F of Two Numbers

= product of numbers

So H.C.F of two Number = 12

product of Numbers = 2160

∴ So, L.C.M of two Numbers = $\frac{\text{product}}{\text{H.C.F}}$

= $\frac{2160}{12}$ 180
1

So, L.C.M = 180 Ans

Q-2. The L.C.M of two Co-prime Number is 221. if one Number is 17. Find the other word.
(Hint:→ H.C.F of two Co-prime Number is 1)

Solve:→ we have

L.C.M of Two Co-prime number = 221

one Numer = 17

other Number = ?

we Know that,

L.C.M of Two Numbers x H.C.F of TWO Numbers

= one Number x Two Number

⇒ 221 X1 = 17X other Number

⇒ other Number = $\frac{221 \times 1}{17}$ $\frac{13}{17\overline{)221}}$

= 13

So, other Number is 13 Ans

Q-4. The H·C·F of 276 and 1246 is 138. Find their L·C·M.

Solve:- we have

one Number = 276

other Number = 1246

H·C·F of two numbers = 138

L·C·M = ?

HCF × L·C·M = one Number × Two Number

$138 \times L \cdot C \cdot M = 276 \times 1246$

$\therefore L \cdot C \cdot M = \frac{2}{\cancel{276} \times 1246}{\cancel{138}_1}$

$= 2492$

H·W

(5) The Product of two numbers is 864. If their L·C·M is 72, what is their L·C·M?

(6) The H·C·F of two number is 145 and their L·C·M is 2175. If one Number is 435. Find the other Numbers.

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