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**SUBMIT**

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\*\*\* HCF AND LCM Date 10-10-2017

# Product of two Number = HCF x LCM

$$N_1 * N_2 = HCF * LCM$$

# HCF of  $\frac{a}{b}, \frac{c}{d}, \frac{e}{f}$  form  $\rightarrow$  HCF of Numerator  
LCM of Denominator

# LCM of  $\frac{a}{b}, \frac{c}{d}, \frac{e}{f}$  form  $\rightarrow$  LCM of Numerator  
HCF of Denominator

# Product of n no's =  $(HCF)^{n-1} * LCM$

# The HCF of all prime no's is always 1

# HCF  $\rightarrow$  HCF of x, y, z is the largest No. which can divide x, y, z exactly.

\*\*\* How to find HCF

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Method 1 Prime factor Method  $\rightarrow$

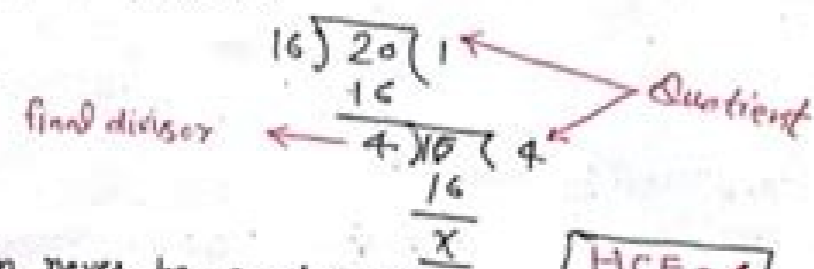
$$16 \rightarrow 2 * 2 * 2 * 2$$

$$20 \rightarrow 2 * 2 * 5$$

$$HCF = 2 * 2 = 4$$

\*\*\*  
 HCF  $\rightarrow$  Take all common prime no with minimum power

Method 2 Division Method  $\rightarrow$  16, 20



Mohit Method  $\rightarrow$  HCF can never be greater than difference of two No. ~~use any~~  
 So HCF may be minimum difference of any two numbers which are selected or factor of difference.



**Finding HCF & LCM Using Prime Factorisation**

**EXAMPLE** 1) Find the Highest Common Factor (HCF) & Lowest Common Multiple (LCM) of 18 and 42.

a) Start by finding the Prime Factors of each number.  
 18 :  $2 * 3 * 3$     42 :  $2 * 3 * 7$

b) Complete a Venn diagram with the factors.

c) The HCF is the product of the shared factors.  
 $HCF = 2 * 3 = 6$  ✓

d) The LCM is the product of all the factors in the Venn diagram.

**SOLVING PROBLEMS WITH HCF & LCM**  
 Student Worksheet

**Question 1**

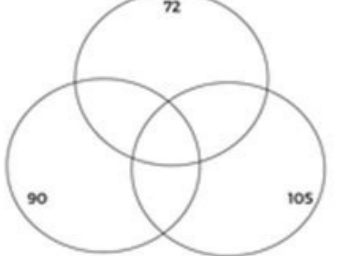
a) Two musical trains leave the station at the same time. One of them takes 12 minutes to complete a circuit and the other takes 15 minutes. How long will it be until both trains arrive back at the station at the same time?

b) 84 students from one school and 105 students from another school are entered into a robotics competition. They need to be formed into equal teams and each team should only have students from one school. What is the largest number of students that could feature on each team?

c) Knives are sold in packs of 8 and forks are sold in packs of 10. Spoons are sold individually. What is the lowest number of spoons that Nirmal can buy to ensure he has an equal number (greater than zero) of knives, forks and spoons.

**Question 2**

Use this Venn diagram to sort the prime factors of 72, 90 and 105 and use your answer to identify the HCF and LCM of the three numbers.





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