Do you know how to find
Lowest Common Multiple or LCM " ?

Question 1 is the previous lesson from Week 6.

Easy question		**Medium** question		**Challenging** question	☑

1) **Question :**

What is the **H**ighest **C**ommon **F**actor (HCF) of **24** , **36** and **60** ?

24	36	60
1 x 24 2 x 12 3 x 8 4 x 6	1 x 36 2 x 18 3 x 12 4 x 9 6 x 6	1 x 60 2 x 30 3 x ☐ 4 x 15 5 x ☐ 6 x 10

Factors of 24 = (1) , (2) , (3) , (4) , (6) , 8 , (12) , 24

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

Factors of 60 = (1) , (2) , (3) , (4) , 5 , (6) , 10 , ☐ , 15 , ☐ , 30 , 60

Common Factors of 24 , 36 and 60 = 1 , 2 , ☐ , 4 , 6 , ☐

Highest Common Factors (HCF) of 24 , 36 and 60 = ☐

Easy question	☑	Medium question		Challenging question	

2) **Question :**

What is the **L**owest **C**ommon Multiple (LCM) of **8** and **12 using the method of listing the multiples ?**

8 ⇨	12
Step 1 : List down multiples of 8 8 , 16 , (24) 32 , 40 , (48) 56 , 64 , (72)	Step 1 : List down multiples of 12 12 , (24) 36 , (48) 60 , (72) 84
Step 2 : **C**ommon **M**ultiples of 8 and 12 = ☐ , ☐ , ☐	
Step 3 : Lowest Common Multiples (LCM) of 8 and 12 is ☐	

Easy question		Medium question	✓	Challenging question	

3) **Question :**

What is the **L**owest **C**ommon Multiple (LCM) of 12 and 20 **using continued division ?**

Step 1 : Divide with the smallest prime factor which is 2.

Step 2 : Number 6 and 10 can continue to be divided by

2	12	20
2	6	10
✗	3	5

Step 3 : Number 3 and 5 can not be divided further as 3 and 5 do not have similar prime numbers. We stop to divide.

Step 4 : Multiply all the circle prime numbers.

(2)	12	20
(2)	6	10
✗	(3)	(5)

Step 5 : The Lowest Common Multiple of 12 and 20 is 2 x 2 x 3 x 5 = ____

The End