Answer 3 – HCF and LCM

Find the Highest Common Factor (HCF)			
We need to know the factors of the numbers before we can find the HCF.			
1.	1 x 16 = 16 2 x 8 = 16 4 x 4= 16	1 x 18 = 18 2 x 9 = 18 3 x 6 = 18	
	Factors of 16: 1, 2, 4, 8, 16 and Factors of 18: 1, 2, 3, 6, 9, 18 The numbers common in both of the lists are: 1 and 2. HCF is 2.		
2.	The numbers common in both of the	1 x 24 = 24 2 x 12 = 24 3 x 8 = 24 4 x 6 = 24 Factors of 18: 1,2, 3, 4, 6, 8, 12, 24 e lists are: 1,2 and 4	
3.	HCF is 4. $1 \times 45 = 45$ $3 \times 15 = 45$ $5 \times 8 = 45$ Factors of 45: 1,3, 5, 8, 15, 45 Factors of 60 : 1, 2, 4, 5, 6, 10, 12 The numbers common in both of the HCF is 15.		

Find the Lowest Common Multiple (LCM)

We need to know the multiples of the numbers before we can find the LCF.

	Multiples of 6: 6,12,18,24,30,36,42,48	Multiples of 8: 8,16,24,32,40,48	
1.	We can see the numbers 24 and 48 appear in both the multiples. The smallest number is 24. LCM is 24.		
	Multiples of 2: 2,4,6,8,10,12,14,16,18,20	Multiples of 5: 5,10,15,20,25	
2.	We can see the numbers 10 and 20 appear in both the multiples. The smallest number is 10. LCM is 10.		
	Multiples of 15: 15, 30, 45, 60,75, 90,105,120	Multiples of 20: 20, 40, 60, 80, 100, 120	
3.	We can see the numbers 60 and 120 appear in both the multiples. The smallest number is 60. LCM is 60.		