## **Least Common Multiple (LCM) of Integers and Monomials**

Prime Numbe	ers:			
Examples:				
Prime factoriz	zation:			
We do this by	<i>::</i>			
Examples:	Make a factor	tree of the follo	wing numbers to find t	heir prime factorization
a) 40		b) 30	c) 45	d) 70
LCM of Two	Integers			
① Make fact	tor trees for each	n number to find	their prime factorization	ons
② Make a V	enn diagram of e	each prime factor	rization	
3Multiply t	he numbers in th	ie Venn diagram	→ that is your LCM	
Examples:	Find the LCM	of the following	pair of numbers:	
a) 10 an	d 15		b) 5 and 2	c) 6 and 8
d) 8 and 20	)		e) 4 and 10	

## **LCM of Monomials:**

- ①Make a factor tree of the integers in each monomial to determine the LCM of the integers
- 2 The LCM of your variables will be the ones with the highest power (common terms)

Examples: Find the LCM of the following monomials:

a) 
$$2x^3y$$
 and  $3x^5y^3$