

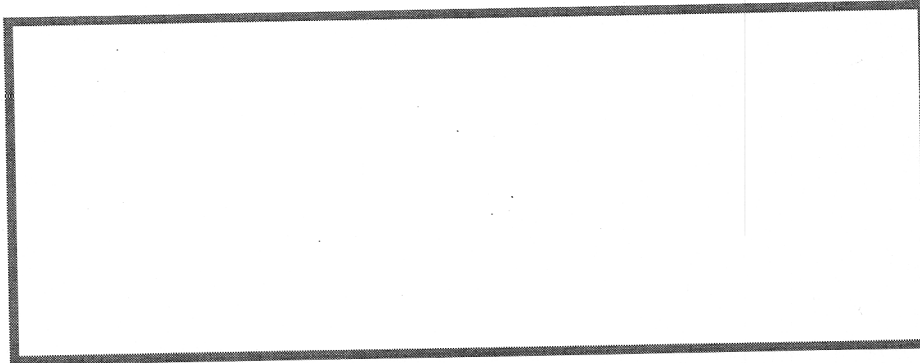
# Factoring:

Factoring means to "undo" what has been multiplied and/or distributed!

## Common Factors:

When two integers are multiplied together, the answer is called a product.

The integers that were multiplied together are called the factors of the product.



## GCF:

The greatest common factor of two (or more) integers is the largest integer that is a factor of both (or all) numbers.

Find the GCF for the following shown below:

<b>Integers:</b>	<b>Monomials:</b>
Find the GCF of 18, 24, & 36.	Find the GCF of $12x^3$ , $30x^2$ , and $42x$ .

## Factoring Expressions using the GCF:



Factor each expression using the GCF:

1]  $3a + 6$

2]  $8x^2 - 12y + 20$

3]  $4mn - 10m$

4]  $8a^3b^2 + 16a^2b^2 - 4ab$

5)  $5b^2c + 15bc + 25bc^2 - 15bc =$

6) If the area of the rectangle is represented as  $3w^2 + 5w$ , where  $w$  is the width of the rectangle. What is the length of the rectangle in terms of  $w$ ?

