

## Always look for a Greatest Common Factor FIRST!!!

## 2 TERMS

(Must be in one of the following forms to factor with two terms)

## 3 TERMS

(Box Method)

## 4 TERMS

(Grouping)

**Difference of Two Perfect Squares** 

OR

Sum Of Cubes - SOAP



**Difference of Cubes - SOAP** 

**Box Method** and Rules for Signs

Last sign positive... both get middle sign. Last sign negative... check the O.I. in F.O.I.L Group first two and last two terms and see if each pair has a G.C.F. (May need to change order of the terms)

**THEN** 

If the G.C.F. of each pair results in a common binomial, factor out the binomial..

THEN

Write the binomial times the binomial created by the terms left when GCF. binomial was pulled out.

1. If **nothing** can be done to the original expression, then it is **PRIME** 2. Check to see if any of your final answers **will factor further**. 3. When it is written as a product of primes, the polynomial is **COMPLETELY FACTORED**.