# **Greatest Common Factor (GCF)**

When given only variables with exponents.....

1. Choose the variable with the <u>SMALLEST EXPONENT</u>.

#### <u>When given a COEFFICIENT and a VARIABLE with</u> <u>EXPONENTS.....</u>

- 1. Find the <u>GCF of the COEFFICIENTS</u>.
- 2. Choose the <u>VARIABLE with the SMALLEST EXPONENT</u>.

### When given a POLYNOMIAL.....

- 1. Find the <u>GCF</u> (for the coefficients and the variables).
- 2. Write each term *as a FRACTION*.
- 3. <u>DIVIDE</u> each term <u>by the GCF</u>.
- 4. Write your *answer in PARENTHESES*.
- 5. Write the <u>GCF in FRONT of the PARENTHESES</u>.

Remember.....



If terms DOES NOT have a VARIABLE, you CANNOT have a VARIABLE in



# Difference of Two Squares (D.O.T.S.)

First, decide if you can use DOTS by looking for a BINOMAL that has.....

- SUBTRACTION in the MIDDLE.
- A variable with an <u>EVEN EXPONENT</u>.
- A number that is a <u>SQUARE ROOT</u>

## Factoring Using D.O.T.S

