**Introduction to Factoring** Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Block:\_\_\_\_\_\_\_\_\_\_

**Review how to “FOIL”**

**F**-First **O**-Outside **I**-Inside **L**-Last

Multiply the **F**irst two terms in each parenthesis. Then multiply the **O**utside terms. Then multiply the **I**nside terms. Then multiply the **L**ast terms. You will then combine like terms. The first one is done for you below.

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1. 5.)
2. 6.)
3. 7.)
4. 8.)

**Introduction to Factoring (Reverse FOIL)**

Now I will give you what was your answer (on the front side of the WS) and you need to rewrite it as two “factored” pairs (in other words to equations in parenthesis).

Steps: Find two numbers that multiply to the last number. Then test to make sure that those two numbers also add to the middle number. The first one is done for you below.

-We need to find two numbers that multiply to the last number, 6 ).   
-We now need to check which of these add up to the middle number, 5 ).   
-So 2 and 3 are the numbers so we write your answer as:  **You can FOIL out your answer to check and see if it is what we started with for this problem.**

- We need to find two numbers that multiply to the last number,   
).   
-We now need to check which of these add up to the middle number,   
 and ).

-So -2 and 4 are the numbers so we write your answer as:  **You can FOIL out your answer to check and see if it is what we started with for this problem.**

1.) 5.)

6.)

7.)

8.)