Date: 3/22/2012 Period:

Investigate Multiplying Integers:

Multiplication as repeated addition:

If your net worth is \$0 and you add a debt of \$5, what is your new net worth? _______

If your net worth is \$0 and you take on 3 debts of \$5 each, what is your new net worth?

What is $3\times(-5) =$

Complete the following table – look for patterns that you think make sense when multiplying positive and negative numbers.

Multiplication Patterns

Wattpiloation atterno						
5	×	4	=			
5	×	3	=			
5	×	2	=			
5	×	1	=			
5	×	0	=			
5	×	-1	=			
5	×	-2	=			
5	×	-3	=			
5	×	-4	=			
5	×	-5	=			

Make a conjecture (prediction) on a rule that you can use when you multiply a positive number by a negative number:

Using what you discovered about multiplying a negative \times a positive, complete the following table – look for patterns that you think make sense when multiplying a negative by a negative.

Multiplication Patterns

Multiplication Patterns							
-5	×	5	=				
-5	×	4	=				
-5	×	3	=				
-5	×	2	=				
-5	×	1	=				
-5	×	0	=				
-5	×	-1	=				
-5	×	-2	=				
-5	×	-3	=				
-5	×	-4	=				
-5	×	– 5	=				
-5	×	-6	=				

Make a conjecture (prediction) on a rule that you can use when you multiply a negative number by a negative number: