Name:	
	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

- Mattphoation Latterns							
5	×	4	= '				
5	×	3	=				
5	×	2	<u></u>				
5	×	1	:==== :==				
5	×	0					
5	×	1	=				
5	×	-2	=				
5	×	-3	= '				
5	×	<u>-4</u>					
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

-	ινιωιαμ	ilicatio	n Patterns	
-5	×	5	=	
-5	×	Ą	=	
- 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: