

Multiplying Integers

First, we already know positive times positive is positive. Look at the pattern to complete the chart below. (Hint, look at what happens in the right column as we go down.):

$4 \times 3 =$	12
$3 \times 3 =$	9
$2 \times 3 =$	6
$1 \times 3 =$	3
$0 \times 3 =$	0
$-1 \times 3 =$	
$-2 \times 3 =$	
$-3 \times 3 =$	
$-4 \times 3 =$	

Our second rule is that:

Negative times positive is _____.

Now we look at groups of negative numbers. Look at the chart below from the bottom up. From the bottom, we see that

Positive times negative is _____.

-4×-5	
-3×-5	
-2×-5	
-1×-5	
0×-5	
1×-5	-5
2×-5	-10
3×-5	-15
4×-5	-20

Now look for the patterns and complete the chart.

Negative times negative is _____.

Summary. For multiplication:

“Same signs, positive. Different signs, negative!”