Name: _____ Date: _____

Adding Integers

Rule 1: The sum of two positive integers will be positive.

$2 + 3 = 5$ $7 + 8 = 15$ $12 + 14 = 26$

Rule 2: The sum of two negative integers will be negative.

Add the absolute values of both numbers.

$-6 + -7 = -13$ $-4 + -3 = -7$ $-18 + -15 = -33$

Rule 3: The sum of integers with different signs will use the sign of the integer with the greatest absolute value.

Find the absolute value of both numbers;
then subtract the smaller from the larger number.

Equation	Absolute Values	Subtract	Sign of the Sum	Solve
-5 + 8 = __	(5, 8)	|8| - |5| = (3)	+	-5 + 8 = **3**
3 + -4 = __	(3, 4)	|4| - |3| = (1)	-	3 + -4 = **-1**
-9 + 7 = __	(9, 7)	|9| - |7| = (2)	-	-9 + 7 = **-2**
13 + -6 = __	(13, 6)	|13| - |6| = (7)	+	13 + -6 = **7**

Hint: When adding a positive number, move right on the number line.
When adding a negative number, move left on the number line.

Subtracting Integers

Rule: To subtract an integer, add its opposite.

Equation	Add the Opposite	Solution
5 - 6 = __	5 + -6 = __	-1
5 - -6 = __	5 + 6 = __	11
-5 - 6 = __	-5 + -6 = __	-11
-5 - -6 = __	-5 + 6 = __	1