ADDING & SUBTRACTING INTEGERS
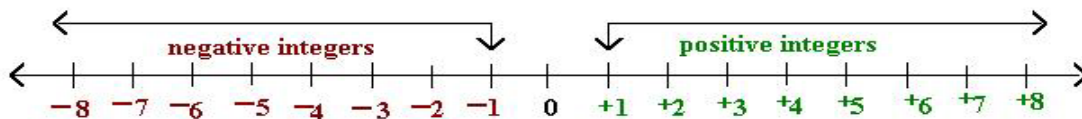
VOCABULARY:

Integers	the set of whole numbers (no decimals) that include _____ numbers, _____ numbers, and _____
Positive Integer	Any integer that is greater (bigger) than zero Examples:
Negative Integer	Any integer that is less than (smaller) zero Examples:

COMPARING THE VALUE OF INTEGERS

When comparing integers, we can use a number line. The further a number is to the right the greater it's value
- Positive integers are greater then negative integers

EXAMPLES:

i) Which is greater:

a) -6   or   6   b) 18   or   9   c) -2   or   -5

ii) Rank these numbers from smallest to largest: -5, 10, 1, -7, 0, -8, 21, -18

WHAT WILL ADDING INTEGERS LOOK LIKE?

-   Sometimes are expressions will involve brackets. Why are brackets used in these situations?

-   If there are two operations/signs beside each other, separated by only a bracket, we can eliminate the bracket by combining the signs

If signs are the same:		If signs are different:	
- combine signs into a +		- Combine signs into a -	
2 + (+ 3) =	4 – (-4) =	4 – (+ 5) =	-8 + (-2)

Examples

i)   2 - (-8)   ii) (+3) + (-2)   iii) (3) – (+3)   iv) (-4) – (+5)

Strategies for adding and subtracting integers

-6 + (-2)

Number Line	Number Tiles	Calculator

a) -2 +4

b) -4 + (-7)

c) 5 + (-3) + 2

d) -6 + 3 + (-3)

e) -5 + (-4) + 7

f) 7 + (-6) + 3

g) 3 – (-5)

h) -9 – (+3)

i) 9 – (-4) + (-12)

j) -8 +5 -7 +5