Chapter 6 Integers

Study Guide

ADDITION OF INTEGERS

SAME SIGN - Add and Keep the Sign!

Add the absolute value of the numbers and keep the same sign.

(positive) + (positive) = (positive)

ex. (+5) + (+3) = (+8)

(negative) + (negative) = (negative)

ex. (-5) + (-3) = (-8)

DIFFERENT SIGNS - Subtract and Keep the Sign of the Bigger Number!

Subtract the absolute value of the numbers and keep the sign of the bigger number.

(-4) + (+3) = -1

(+4) + (-3) = +1

SUBTRACTION OF INTEGERS

Do not subtract integers. You must change the signs.... "Add the Opposite"

KEEP - Keep the sign of the first number

CHANGE - Change the subtraction sign to addition.

CHANGE - Change the sign of the second number to the opposite sign. If it is positive -> change to negative. If it is negative -> change to a positive.

(+4) - (-4)

Keep	Change	Change
(+4)	+	(+4)

Now use the rules for adding:

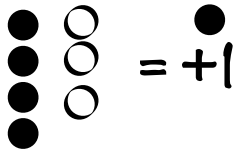
Same Sign - Add absolute values and keep sign:

(+4) + (+4) = 8

ADDITION W/ COUNTERS

Pair up the positive and negative chips to cancel each other out.

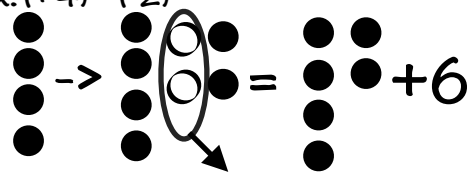
ex. (+4) + (-3)



SUBTRACTION W/ COUNTERS

When subtracting integers with integer chips, we may need to first add zero!

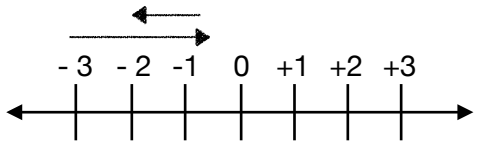
ex. (+4) - (-2)



ADDITION W/ NUMBER LINE

When adding integers using a number line we can use the first integer we see as our starting point and move RIGHT for positive and LEFT for negative integers.

ex. (-3) + (+2) + (-1) = (-2)



SUBTRACTION W/ NUMBER LINE

When subtracting integers using a number line, we move the opposite direction as we would if we were adding. LEFT for positive and RIGHT for negative.

ex. (+3) - (+2) - (-1) = (+2)