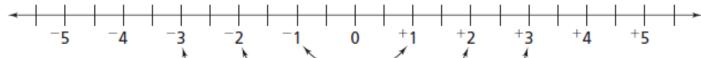
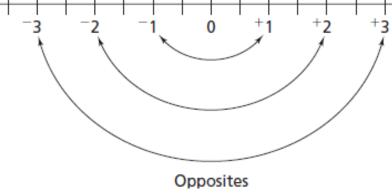
Integers

Integers are the set of whole numbers and their opposites.



A number plus its opposite is equal to zero.

$$5 + (-5) = 0$$



The <u>absolute value</u> of a number is the distance a number is from zero. The <u>absolute value</u> is a distance and will always be <u>positive</u>.

$$|4| = 4 \qquad |-3| = 3$$

ADDING INTEGERS				
Chip Board	Number Line	Rules		
 Set up chipboard by putting chips on the chip board for the first part of the problem - Remember black chips are positive and red are negative. 	 Find starting point ADDING mean you'll MOVE to the RIGHT. 	1. Positive + Positive = Positive- Just add- Answer is positive		
2. Add more chips to the chip board from the second part of the problem	3. If you come to a NEGATIVE SIGN in the problem, you must CHANGE DIRECTIONS .	 2. Negative + Negative = Negative - Just add the absolute values - Answer is negative 		
3. Calculate the value of the chip board REMEMBER:- Pair up the black and red chips.	4. Move and see where you land, that is	3. Negative + Positive = Neg. or Pos. Positive + Negative = Neg. or Pos.		
 One black chip & one red chip equal zero. Remove each pair from the board The final value is represented by what is left on the board. 	your answer.	 Subtract the absolute values If you have more negatives, the answer is negative If you have more positives, the answer is positive. 		

SUBTRACTING INTEGERS				
Chip Board	Number Line #1	Number Line #2	Rules	
 Set up chipboard by putting chips on the chip board for the 1st part of the problem - Remember: Black chips are positive and red are negative. 	 Find starting point SUBTRACTING mean you'll MOVE to the LEFT. 	 Subtraction means you are finding a "difference". "Difference" basically means that you need to find out how far apart the numbers are from each other. 	 Rewrite the subtraction problem as an addition problem. Subtracting a number is the same as adding it's opposite. Examples: 7 - 5 = is the same as 	
 2. Subtraction means you must "take away" or remove chips that represent the 2nd part of the problem. If you do not have enough black or red chips to "take away", you must first add convenient zeroes. Convenient zeroes are pairs of red and black chips that can be added to the chip board but won't change its value. Ex. 2 red chips and 2 black chips equal zero so they would not change the value of the chip board. When you have enough chips to represent second part of the problem, remove them. 3. Calculate the value of the chip board. 	 3. If you come to a NEGATIVE SIGN in the problem, you must CHANGE DIRECTIONS. 4. Move and see where you land, that is your answer. 	 Put both numbers on the number line and see how many far apart they are. Now you must determine whether you answer is positive or negative. A large number minus a smaller number has a positive answer. A small number minus a larger number has a negative answer. Large - Small = Positive Small - Large = Negative 	7 + (-5) = Subtracting 5 is the same as adding the opposite of 5 which is (-5). -6 - (-3) = -6 + 3 = Subtracting -3 is the same as adding it's opposite (3). -2 - 9 = -2 + (-9) = Subtracting 9 is the same as adding its opposite (-9).	

Multiplying Integers

- Positive x Positive = Positive
- Negative x Negative = Positive
- Positive x Negative = Negative
- Negative x Positive = Negative

Dividing Integers

- Positive ÷ Positive = Positive
- Negative ÷ Negative = Positive
- Positive ÷ Negative = Negative
- Negative ÷ Positive = Negative