

## Lesson 13- Using & Comparing Integers

***Integers are used to express opposite ideas.***

Natural numbers (1, 2, 3, 4, 5 ..... $\infty$ ) positive whole numbers (not zero)

Whole numbers (0, 1, 2, 3, 4 ..... $\infty$ ) including zero

Integers (..... $-\infty$  ..... -3, -2, -1, 0, 1, 2, 3 ..... $\infty$ ) positive and negative whole numbers

### **WORDS YOU MUST KNOW FOR WORD PROBLEMS**

A gain of 5 points = +5

a profit of \$20 = +20

A loss of 5 points = -5

a debt of \$20 = -20

10 steps up = +10

a deposit of \$100 = +100

10 steps down = -10

a withdrawal of \$ 100 = -100

20 meters left = -20

5 meters above sea level = +5

20 meters right = +20

5 meters below sea level = -5

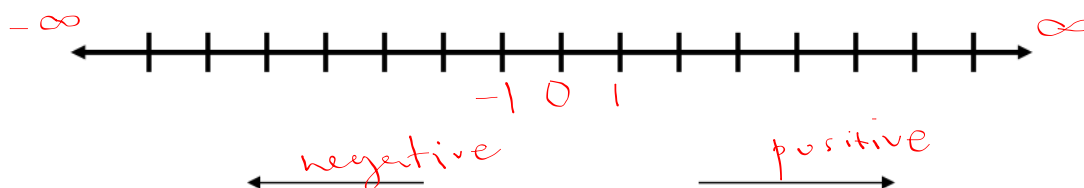
**Comparing Integers:** Use an *integer number line*.

**Two positive integers:** bigger numbers = greater value

**Two negative integers:** numbers closer to 0 are greater

**A positive and negative integer:**

Different signs, than the larger unit number is always Bigger



**Examples:**

1. Opposite of +7 = -7

-2 = +2

0 = 0