

NAME: _____

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Lesson 13 – Positive and Negative Integers

Integers are used to express many things in our daily lives:

Examples:

- Temperature
- Elevations
- Golf scores
- Profits
- Losses
- Financial statements
- A profit of \$700 can be written as +700 whereas a loss of \$700 can be written as -700
- When a golfer shoots 4 under par, his score is written as -4

I = symbol for integers

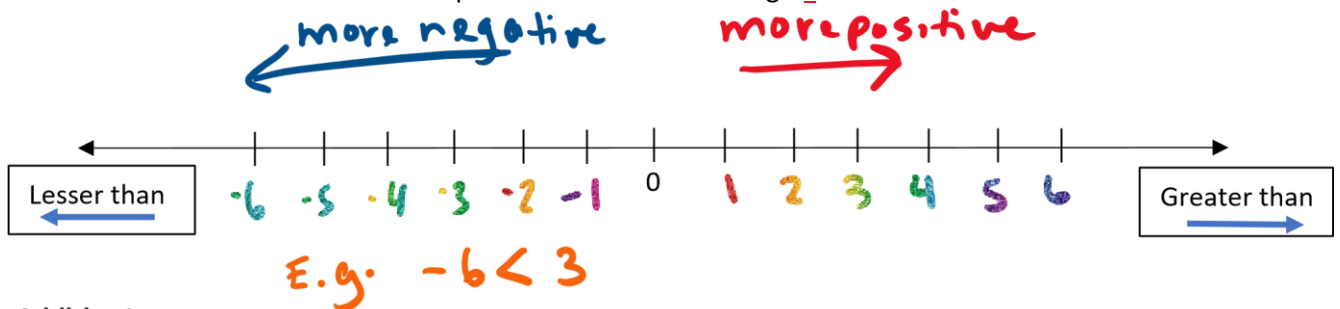
- Composed of ALL positive numbers and negative numbers
- Includes the number **zero** which is considered **neutral** (neither positive nor negative)

Set of integers is

$\{ \dots -4, -3, -2, 1, 0, +1, +2, +3, +4, \dots \}$

+8 is read as positive eight and -5 is read as negative five.

A set of integers can be represented graphically to help us determine whether one integer is larger than another. We can also use a number line to help us add and subtract integers.



Additive Inverses:

- Every integer has an opposite integer

Example:

$$+4 \rightarrow -4$$

$$-3 \rightarrow +3$$

$$-8 \rightarrow +8$$

$$+2 \rightarrow -2$$