

Name: \_\_\_\_\_ Date: \_\_\_\_\_

## Integers

Numbers *greater than 0* are called **positive numbers**. (1, 2, 3...)

Numbers *less than 0* are called **negative numbers**. (-1, -2, -3...)

*Zero is neither positive nor negative.*

**Integers are the set of whole numbers and their opposites.**

This set includes the positive numbers, the negative numbers and zero.



**Opposites** are a pair of numbers that are equal distances away from zero on opposite sides of zero on the number line.

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For example:

$$-3 > -5$$

$$-2 < 4$$

$$1 > -1$$

$$-9 = -9$$

## Absolute Value

When dealing with integers at this math level, *the distance of a number from zero* is called that number's **absolute value**.

It is written as  $|x|$ , meaning the absolute value of  $x$ .

For example:

The absolute value of -2 is 2, because -2 is 2 spaces from 0.

It is written as

$$|-2| = 2$$

**Absolute value** tells how far from zero.

**Positive and negative signs** tell in which direction from zero.