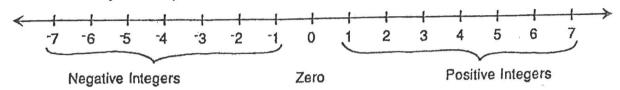
Integers Notes #1

Integers no decimal, no fractions

Integers are a lot like the whole numbers that you already know. The main difference is that there are negative integers as well as positive integers. Zero is also an integer. Here is one way we can picture the set of integers:

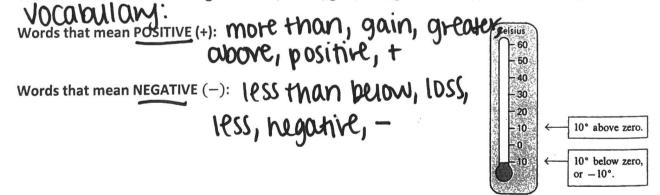


As you can see, the negative integers are to the left of zero. We use a little raised minus sign to show that an integer is negative. Sometimes we use a little raised plus sign to show that an integer is positive, but we usually don't use any sign at all when the integer is positive.



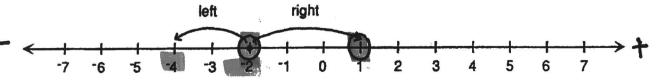
- 1) Place 0 on the number line near the center. escriba 0 par la sinea en el medio
- 2) Write in the numbers 5, -1, -5, 2, and -8. escriba los números: 5, -1, -5, 2, -8

Words that are used with integers: above, below, gain, loss, greater, less, positive, and negative.



Comparing Integers

By looking at the number line we can easily tell which integers are greater (larger) than a certain number and which are less (smaller) than the number.



2 because it is to the *right* of -2. 4 is less than -2 because it is to the *left* of -2.

1 is greater than -2 is writter	1	is	greater	than	-2	is	writter
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n: <u>1</u> <u>9</u> <u>-2</u>

greater than -pacman eats the

-4 is less than -2 is written:

Use a or compare these numbers.

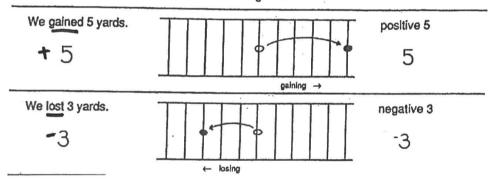
- 1) -3 @ 0 2) -2 @ 3
- 5 **2** 0 3)

- 4)
- -1<u>9</u>-4 5) 5<u>9</u>-2
- 6) -5 6 -2

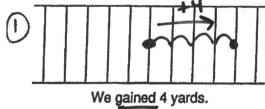
bigger number

Showing Gains and Losses

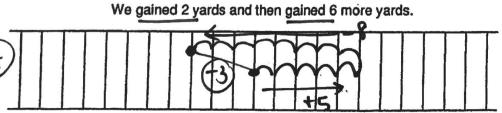
You can also use integers to show gains and losses. Positive integers show gains, and negative integers show losses. Zero is used if there is no change. Here is how we can use integers to show gains and losses in a football game:



You show the following gains and losses.







We gained 5 yards and then lost 8 yards.

+5-8=-3