# Introducing Integers



#### Objectives:

- 1) Define and identify integers
- 2) Write the opposites of integers
- 3) Use integers to represent real-world data
- 4) Graph integers on a number line and a line plot
- 5) Compare and order integers

## Vocabulary



#### integers

negative numbers

&

positive numbers

opposites

### Integers



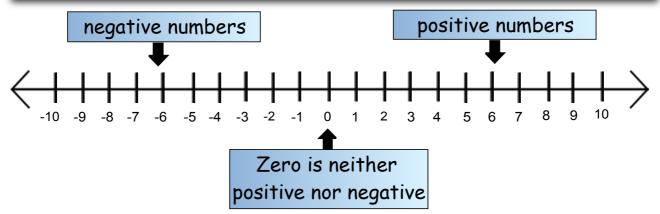
Integers are all whole numbers and their opposites.

An integer can be any one of the following:



# Positive & Negative Numbers





- ★ Negative numbers are always written with a minus (-) sign.
- ★ Positive numbers can be written with or without a plus (+) sign.

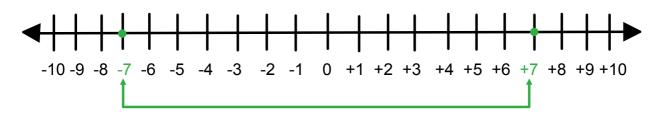
practice ()

## Opposites



Opposite integers are integers that are an equal distance from zero.

Example: +7 and -7 are opposites





# Use integers to represent data

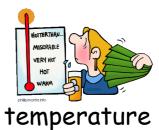


Integers can be used to represent real-world data.











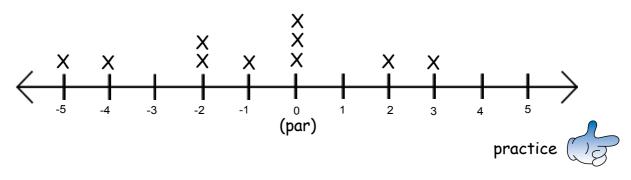
## Create line plots using integers



### Line plots can include negative integers!

Sean plotted his golf scores for his last 10 games below. (in reference to par)

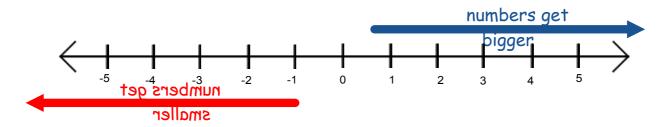
#### Golf Scores



## Compare and Order Integers



Numbers are arranged in order from least to greatest on a number line.



Any number is greater than all the numbers to its left on a number line (or less than all the numbers to its right).



### Find the integers.

If they are not integers throw them in the garbage.

.85

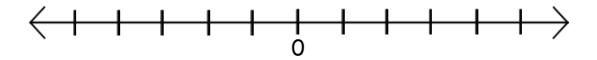
73 75.35 68  $\frac{25}{53} - \frac{8}{18}$  -594 -3,752





## Drag the integers to their position on the number line.







back to vocabulary

## Match each integer with its opposite.



Drag the integer beside its opposite.

next (



# Using positive and negative words... Drag the words to the correct category.

negative (-)	positive (+)
withdrawal deposit	fall decrease

more practice

# Write an integer for each phrase. Use the Magic Eraser to a reveal the correct

Seven degrees below zero	<del></del>	
Going up four floors on the elevator		
Owing \$50		
150 meters above sea level	<del></del>	
Move back four spaces		
Five shots under par		next ()
		(-)

## Make a line plot of the data



The table shows the lowest temperatures recorded over a 30 day period in Denver. Use the "x" to record the data on the line plot.

7	•	
•	•	

Lowest Temperatures ( <sup>0</sup> F)						
-1	0	9	-5	13		
15	12	-8	7	-10		
5	0	7	-6	5		
-10	-5	0	10	12		
4	-2	-2	8	12		
0	7	4	-5	9		

Lowest Temperatures (°F)



Check



## Compare the integers



Drag the correct sign between the pairs of integers.

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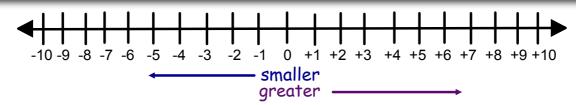








## Use the number line to write the integers in order from greatest to smallest.



*A*. -4, +6, -2, +1, 0 \_\_\_\_\_

B. -2, -4, -1, -13

*C*. -6, +6, -3, +3, 0

D. -22, -36, -1, 0

Move the rectangle up to reveal the answers.