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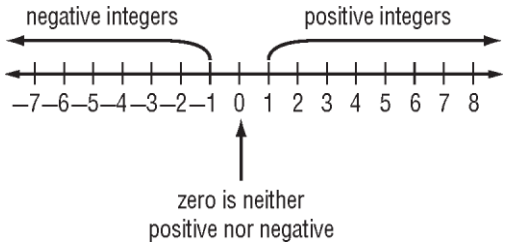
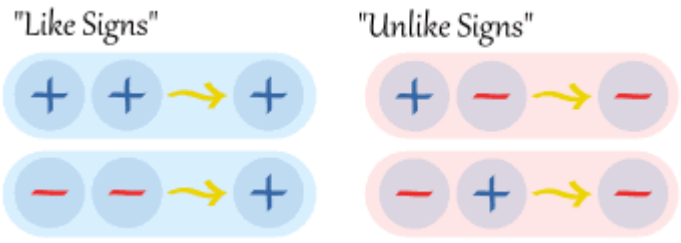
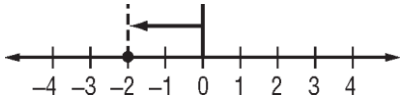
Integers and Absolute Value Lesson 3-1

Integers less than zero are **negative integers**. Integers greater than zero are **positive integers**.



The absolute value of an integer is the *distance the number is from zero* on a number line. Two vertical bars are used to represent absolute value. The symbol for absolute value of 3 is |3|.

Integer Sign Rules Reference	***If 2 signs are next to each other with NO number in between, the signs BATTLE! Use the Sign Rules for a Reference.**
	

Example 1) a) **Write an integer that represents 160 feet below sea level.** b) **A profit of $53**	**Example 2) Evaluate | –2 |.** 
Example 3) Evaluate | –3 | + | -4 |	**Example 4) Graph the set of integers on a number line. {-2, 0, 2}** 

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PRACTICE! Write an integer for each situation.

1. seven degrees below zero

2. a loss of 3 pounds

3. a loss of 20 yards

4. a profit of $25

5. 112°F above 0

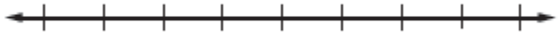
6. 2,830 feet above sea level

Graph each set of integers on a number line.

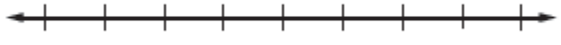
7. {-2, 0, 2}

8. {1, 3, 5}

9. {-2, -5, 3}



10. {7, -1, 4}



Evaluate each expression.

11. $|1|$

12. $|-8|$

13. $|0|$

14. $|-82|$

15. $|64|$

16. $|-128|$

17. $|-22| + 5$

18. $|-40| - 8$

19. $|-18| + |10|$

20. $|-7| + |-1|$

21. $|98| - |-5|$

22. $|-49| - |-10|$