_____ Period: _____ Date: _____

Integers and Absolute Value Guided Notes

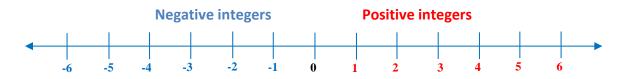
Integers

An integer is a positive or negative whole number.

A positive number is a number greater than zero.

A negative number is a number less than zero.

This number line shows integers.



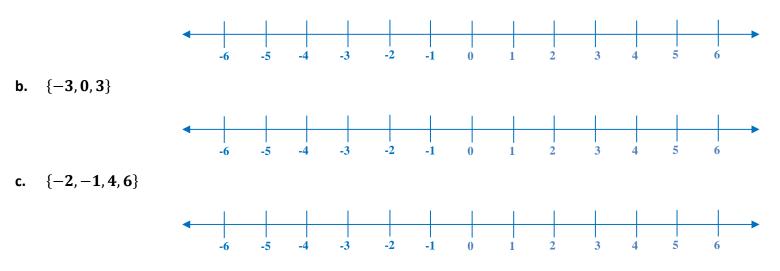
Zero is neither positive nor negative

Sample Problem 1: Write an integer to represent each situation.

- 22 *ft* below sea level a.
- a bonus of \$150 b.
- 7 points lost c.

Sample Problem 2: Graph each integer or set of integers on a number line.

-4 а.



Period: _____ Date: _____

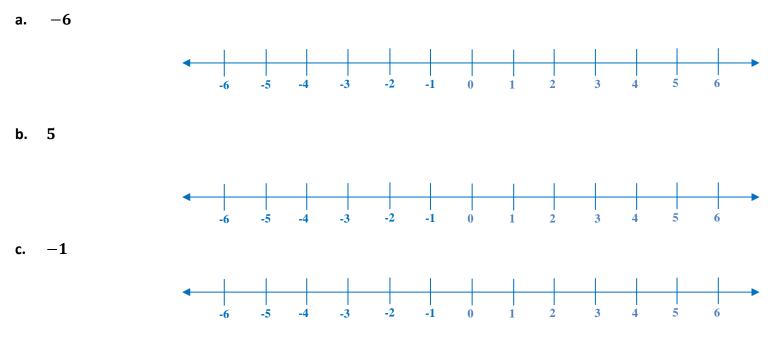
Integers and Absolute Value Guided Notes

Every integer has an opposite integer. A number and its opposite are the same distance from 0.

Sample Problem 3: Find the opposite of each integer.

- -34a.
- +100b.
- 0 C.

Sample Problem 4: Graph each integer and its opposite on a number line.



Sample Problem 5: Compare the following integers. Write < = or >.

- 12____ 125 a.
- 25_____-15 b.

The absolute value of a number is the distance between 0 and the number on a number line.

Remember that distance is always a positive quantity (or zero).

Two vertical bars are used to represent absolute value. The symbol for absolute value of 3 is |3|.

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Integers and Absolute Value Guided Notes

Sample Problem 6: Find the absolute value of the following numbers.

- |-13| = a.
- |+44| = b.
- |-1,999| = c.

Sample Problem 7: Order the values from least to greatest.

a. |-15|, 11, -2, |-4|

b. 4, |+44|, |-8|, -1, |-32|

Sample Problem 8: Evaluate each of the following expressions.

|-13| + 13 - |4| =a.

b. 54 - |+44| - |-8| =

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c. 128 + |-9| * 10 * |-4| =

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