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TIESSON Interactive Study Guide

Understanding Integers

Positive numbers are greater than 0. They can be shown with or without the positive sign. For example: 25 or +25

Negative numbers are less than 0. They are always written with a negative sign. For example: -25

Identifying Positive and Negative Numbers in the Real World Name a positive or negative number to represent each situation.

Vocabulary

absolute value integer negative opposite positive

A. earning \$65

____ numbers are used to represent gains or increases.

What sign do you use to represent earnings? ____ 65

B. a decrease of 46 points

___ numbers are used to represent losses or decreases.

____ 46 What sign do you use to represent a decrease?

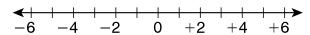
On a number line, **opposites** are the same distance from 0 but on different sides of 0. Integers are the set of all whole numbers and their opposites.

Graphing Integers

Graph -2 and its opposite on a number line.

Plot -2 on the number line.

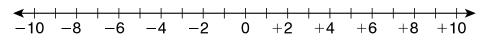
What other number is the same distance from 0 as -2? _____ Plot the opposite of -2 on the number line.



The **absolute value** of an integer is its distance from 0 on a number line. The symbol for absolute value is ||.

Finding Absolute Value

Use the number line to find the absolute value of each integer.



A. |7| How many units from 0 is 7? _____ So, |7| = _____.

B. |-3| How many units from 0 is -3? _____ So, |3| = _____.