NAME \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ DATE \_\_\_\_\_\_\_\_\_ PERIOD\_\_\_\_\_\_\_

**Family Letter**



**Vocabulary**

**absolute value** The distance between a number and zero on a number line.

**bar notation** A bar placed over digits that repeat to indicate a number pattern that repeats indefinitely.

**integer** Any number from the set {… -4, -3, -2, -1, 0, 1, 2, 3, 4 …} where … means *continues without end.*

**negative integer** A number that is less than zero. It is written with a - sign.

**opposites** Two integers are opposites if they are represented on the number line by points that are the same distance from zero, but on opposite sides of zero. The sum of two opposites is zero.

**positive integer** A number that is greater than zero. It can be written with or without a + sign.

**quadrants** The four regions in a coordinate plane separated by the *x*-axis and *y*-axis.

**rational number** A number that can be written as a fraction.

**repeating decimal** The decimal form of a rational number.

**terminating decimal** A decimal is called terminating if its repeating digit is 0.

**Dear Parent or Guardian:**

Today we began Chapter 5 Integers and the Coordinate Plane. In this chapter, your student will learn how to graph, compare, and order integers. Also, we will be graphing points in all four quadrants of the coordinate plane. Included in this letter are key vocabulary words and activities you can do with your student. If you have any questions or comments, feel free to contact me at school.

Sincerely,

**Course 1 · Chapter 5** Integers and the Coordinate Plane

 77° Meridian

Compare and contrast lines of latitude

and lines of longitude with the coordinate plane.

•

 60°

*SOUTH AMERICA*

 90°

 30°

 0°

 150°

Research how positions on Earth are

described using degrees of latitude and degrees of longitude.

•

Washington D.C.

39° North Latitude

77° West Longitude

*NORTH AMERICAN*

 45°

 30°

Find a map of the world with latitude

and longitude lines marked.

•

*NORTH POLE*

90°

 60°

**Online Activity**

Continue with different numbers of

counters.

•

**+ +**

**+**

**+**

**+**

**+**

**–**

Combine a set of 6 positive counters and

1 negative counter. Remove all pairs of positive and negative counters. Find

the total number of remaining counters.

•

**–**

**–**

**–**

**–**

**–**

**–**

**–**

**–**

Combine a set of 3 negative counters

and 5 negative counters. Find the total number of counters.

•

**+**

**+**

**+**

**+**

**+**

**+**

Combine a set of 2 positive counters

and 4 positive counters. Find the total number of counters.

•

**Materials:** positive and negative counters

**Hands-On Activity**

































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**Course 1** • **Chapter 5** Integers and the Coordinate Plane

NAME

**At-Home Activities**

PERIOD

DATE