



# Family Letter for Unit 8

Dear Family,

During the next few weeks, our math class will be learning about integers, functions, and graphs.

You can expect to see work that provides practice with using function tables to graph lines on a coordinate plane. Here is a sample you may use as a guide.

## Vocabulary

**function rule** A rule that pairs each input value of  $x$  with exactly one output value  $y$ .

**ordered pair** The description of a location on a coordinate plane.

**coordinates** The numbers in an ordered pair.

**origin** The point named by the ordered pair  $(0, 0)$ .

**absolute value** The distance of a number from zero on a number line.

### Adding and Subtracting Integers

When adding integers with like signs, find the sum of the whole numbers and use their common sign. When adding integers with unlike signs, find the difference of the whole numbers and use the sign of the number with the greater absolute value.

$$5 + 3 = 8$$

$$-5 + -3 = -8$$

$$-5 + 3 = -2$$

$$5 + -3 = 2$$

### Graphing on a Coordinate Plane

Graph the equation  $y = x + -1$  on a coordinate plane.

#### Step 1

Make a function table to find the ordered pairs. You can use any values for  $x$ , but it makes sense to choose values that will fit on a small graph.

| $x$ | $y$ |
|-----|-----|
| 2   | 1   |
| 1   | 0   |
| 0   | -1  |
| -1  | -2  |

#### graph

$$y = 2 + -1 = 1$$

$$y = 1 + -1 = 0$$

$$y = 0 + -1 = -1$$

$$y = -1 + -1 = -2$$

#### ordered pair

$$(2, 1)$$

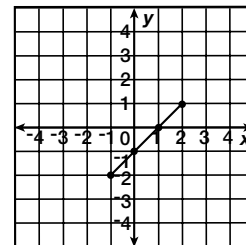
$$(1, 0)$$

$$(0, -1)$$

$$(-1, -2)$$

#### Step 2

Graph each ordered pair on a coordinate plane. Then draw a line through the ordered pairs.



During this unit encourage your child to explain how they graph ordered pairs and functions on the coordinate grid.

Sincerely,



### Technology

Check out *Education Place* at [eduplace.com/map](http://eduplace.com/map) for e•Glossary, e•Word Games, test prep practice, and more.