

MAIN IDEA

- Use integers to represent real-world data.

BUILD YOUR VOCABULARY (pages 27–28)

Data that are less than zero are represented by **negative numbers**. Data that are greater than zero are represented by **positive numbers**.

Opposites are numbers that are the distance from zero in opposite directions.

Positive whole numbers, their opposites, and are called **integers**.

EXAMPLES Use Integers to Represent Data

Write an integer to represent each piece of data.

- 1 GROWTH** A height increase of 3 inches.

An *increase* represents a number.

The integer is .

- 1 GOLF** A golfer is seven shots below par.

The word *below* represents a number.

The integer is .

Check Your Progress Write an integer to represent each piece of data.

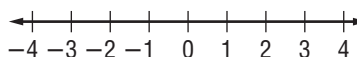
- a. 12 degrees above zero

- b. loss of 8 yards.

EXAMPLE Graph an Integer on a Number Line

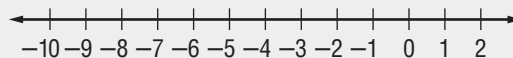
- 1** Graph -2 on a number line.

Draw a number line. Then draw a dot at the location that represents .



WRITE IT

Write a sentence about another real-life situation when you would use a negative number.

Check Your ProgressGraph -5 on a number line.**EXAMPLE**

4 WEATHER The table shows the lowest temperatures in some cities and towns. Make a line plot of the data.

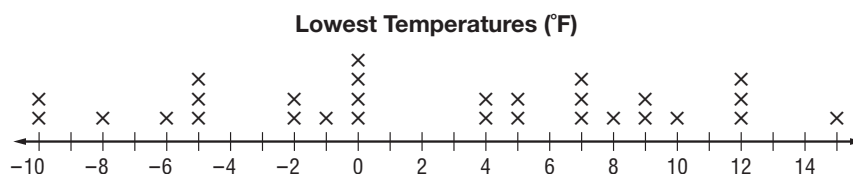
Draw a number line.

would be plotted farthest to the left and farthest to the right.

So you can use a scale

of to . Put an \times above the number that represents each temperature in the table.

Lowest Temperatures ($^{\circ}\text{F}$)				
-1	0	9	-5	13
15	12	-8	7	-10
5	0	7	-6	5
-10	-5	0	10	12
4	-2	-2	8	12
0	7	4	-5	9

**Check Your Progress**

VIDEO GAMES The table shows Carter's score each time he played a video game. Make a line plot of the data.

Video Game Scores			
-4	-1	10	5
8	2	-2	4
10	-4	2	10
-2	10	8	-2

HOMEWORK ASSIGNMENT

Page(s):

Exercises:

