

Vocabulary Check



1. **CCSS Be Precise** Define *linear equation*. Give an example of a linear equation. (Lesson 1)

A linear equation is an equation with a graph that is a straight line.

Sample answer: $y = 8x$

2. Describe the difference between the graph of a set of discrete data and the graph of a set of continuous data. (Lesson 4) **Sample answer: The graph of discrete data has space between the points while the graph of continuous data does not.**

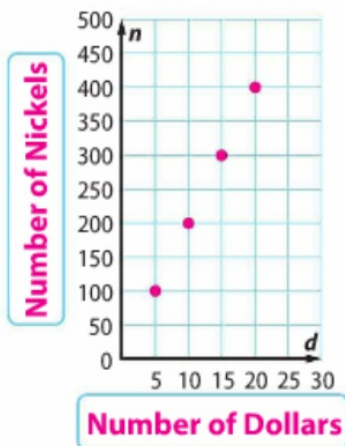
Skills Check and Problem Solving

3. There are 20 nickels in one dollar. (Lesson 2)
- a. Write an equation to find the number of nickels n in any number of dollars d . **$n = 20d$**

Show your work.

- b. Make a table to find the number of nickels in 5, 10, 15, or 20 dollars. Then graph the ordered pairs.

d	$20d$	n
5	$20(5)$	100
10	$20(5)$	200
15	$20(5)$	300
20	$20(5)$	400



Find each function value.

Find each function value. (Lesson 3)

4. $f(8)$ if $f(x) = 15x$

120

5. $f(2)$ if $f(x) = 2x - 5$

-1

6. $f(4)$ if $f(x) = -3x + 15$

3

7. **CCSS Reason Inductively** A campground rents bicycles by the hour. The total cost y to rent a bicycle, including deposit, is presented by the function $y = \frac{1}{3}x + 12$. (Lessons 2 and 4)

- a. Graph the function.
- b. What do the domain and range of the function represent?

Sample answer: The domain is the hours that a bicycle is rented and the range is the total cost.

- c. Is the function continuous or discrete? discrete

