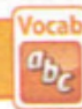


Mid-Chapter Check

Vocabulary Check



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

A relationship that has a straight-line graph. See students' work.

Skills Check and Problem Solving

Find the slope of the line that passes through each pair of points. (Lesson 2)

2. $A(2, 5), B(3, 1)$

-4

3. $C(-1, 2), D(-5, 2)$

0

4. $E(5, 2), F(2, -3)$

$\frac{5}{3}$

5. $G(4, 3), H(-2, -6)$


$\frac{3}{2}$

6. Ernesto baked 3 cakes in $2\frac{1}{2}$ hours. Assume that the number of cakes baked varies directly with the number of hours. Write and solve a direct variation equation to find how many cakes can he bake in $7\frac{1}{2}$ hours. (Lesson 3)

$y = 1\frac{1}{5}x$; 9 cakes

7. The total money y Aaron earned mowing x lawns is shown by the equation $y = 15x + 25$. What does the slope represent? (Lesson 4)

\$15 earned per lawn

8.  **Persevere with Problems** A company logo has four concentric circles. Suppose you graph the points (diameter, circumference) and connect them with a line. In terms of pi (π), what is the slope of the resulting line? (Lesson 4)

π

