

# THINK BIG AND SMALL

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**Practice & Problem Solving**

7. The amount of seed a landscaper uses and the area of lawn covered have a proportional relationship. Complete the table.

| Lawn Seed                       |                               |    |     |
|---------------------------------|-------------------------------|----|-----|
| Seed (oz)                       | 2                             | 3  | 4   |
| Area Covered (ft <sup>2</sup> ) | 50                            | 75 | 100 |
| Area Covered<br>Seed            | $\frac{50}{2} = \frac{25}{1}$ |    |     |

8. **Construct Arguments** Is the relationship between the number of slices of salami in a sandwich and the number of Calories proportional? Explain.

| Calories in a Sandwich |          |
|------------------------|----------|
| Slices of Salami       | Calories |
| 1                      | 66       |
| 2                      | 96       |
| 3                      | 126      |
| 4                      | 156      |

9. **Look for Relationships** A wholesale club sells eggs by the dozen. Does the table show a proportional relationship between the number of dozens of eggs and the cost? Explain.

| Cost of Dozens of Eggs |           |
|------------------------|-----------|
| Dozen                  | Cost (\$) |
| 6                      | 21        |
| 8                      | 28        |
| 10                     | 35        |
| 14                     | 49        |

10. Does the table show a proportional relationship? If so, what is the value of y when x is 11?

| x | 4  | 5   | 6   | 10    |
|---|----|-----|-----|-------|
| y | 64 | 125 | 216 | 1,000 |

11. Does the table show a proportional relationship? If so, what is the value of y when x is 10?

| x | 5              | 6 | 7              | 8              |
|---|----------------|---|----------------|----------------|
| y | $1\frac{2}{3}$ | 2 | $2\frac{1}{3}$ | $2\frac{2}{3}$ |

Grade 7 Sample

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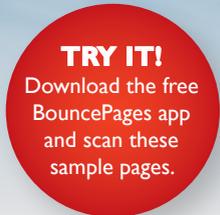


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**Essential Question** How is distance used to solve problems about polygons in a coordinate plane?

**EXAMPLE 1** Find the Perimeter of a Rectangle

An archaeologist used a coordinate plane to map a dig site. She marked the corners of a building with flags, as shown. How much rope does she need to go around the building?

**Generalize** How can you use what you know about finding distances to find the perimeter of the building?

Find the length of each side of rectangle ABCD. Use the coordinates of the vertices of the rectangle: A(-4, 6), B(2, 6), C(2, 1), and D(-4, 1).

- A to B =  $|-4| + |2| = 4 + 2 = 6$  m
- B to C =  $|6| - |1| = 6 - 1 = 5$  m
- C to D =  $|2| + |-4| = 2 + 4 = 6$  m
- D to A =  $|6| - |1| = 6 - 1 = 5$  m

Add the side lengths to find the perimeter of rectangle ABCD.  
Perimeter =  $6\text{ m} + 5\text{ m} + 6\text{ m} + 5\text{ m} = 22$  meters  
The archaeologist needs 22 meters of rope.

Grade 6 Sample

**Essential Question** What are different representations of a function?

**EXAMPLE 1** Represent a Linear Function with an Equation and a Graph

A 10,000-gallon swimming pool needs to be emptied. Exactly 2,000 gallons have already been pumped out of the pool and into the tanker. How can you determine how long it will take to pump all of the water into the tanker?

**Generalize** How can you use what you know about linear equations to solve the problem?

**ONE WAY** Use the information given to draw a diagram that represents the situation, and then write an equation.

**ANOTHER WAY** Use the information given to make a graph.

The total amount of water to be pumped is 10,000 gallons.

The amount of water already pumped is 2,000 gallons, or y-intercept.

The amount of water pumped every hour is 720 gallons, or slope.

$10,000 = 720h + 2,000$

The graph of the function is a straight line, so it is a linear function.

The pump pumps 720 gallons each hour, so the slope is 720.

2,000 gallons have already been pumped.

**Try It!** As the pump is pumping water, the amount of water in the pool decreases at a constant rate. Complete the statements below. Then graph the function.

The amount of water remaining in the pool is  gallons.

The amount of water pumped each hour is  gallons.

The equation is .

**Convince Me!** How is the rate of change of this function different from that in Example 1? Explain.

166 3-2 Connect Representations of Functions

Grade 8 Sample

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