

THINK BIG AND SMALL

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SCOTT FORESMAN • ADDISON WESLEY

Grades 6–8

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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.

Seed (oz)	2	3	4
Area Covered (ft ²)	50	75	100
Area Covered 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.

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.

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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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.

The total amount of water to be pumped

The amount of water already pumped is the **initial value**, or y-intercept.

The amount of water pumped every hour is the **constant rate of change**, or slope.

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

ANOTHER WAY Use the information given to make a graph.

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

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Grade 8 Sample

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