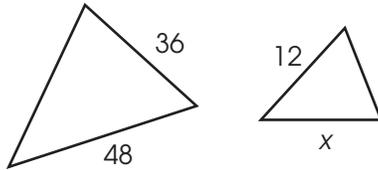


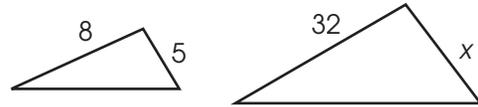
Cumulative Review

Assuming each pair of figures is similar, determine the missing side length, x , using 2 different proportions.

1.



2.



Percent Bar Method

Given Information

Set Up Proportions

3. Tammy took a poll of 56 students in her eighth-grade class. She found out that 75% of her classmates enjoy reading historical fiction books. How many students in her class like historical fiction?



Part:

Whole:

Percent:

$$\frac{\text{Part}}{\text{Whole}} = \frac{\text{Percent}}{100}$$

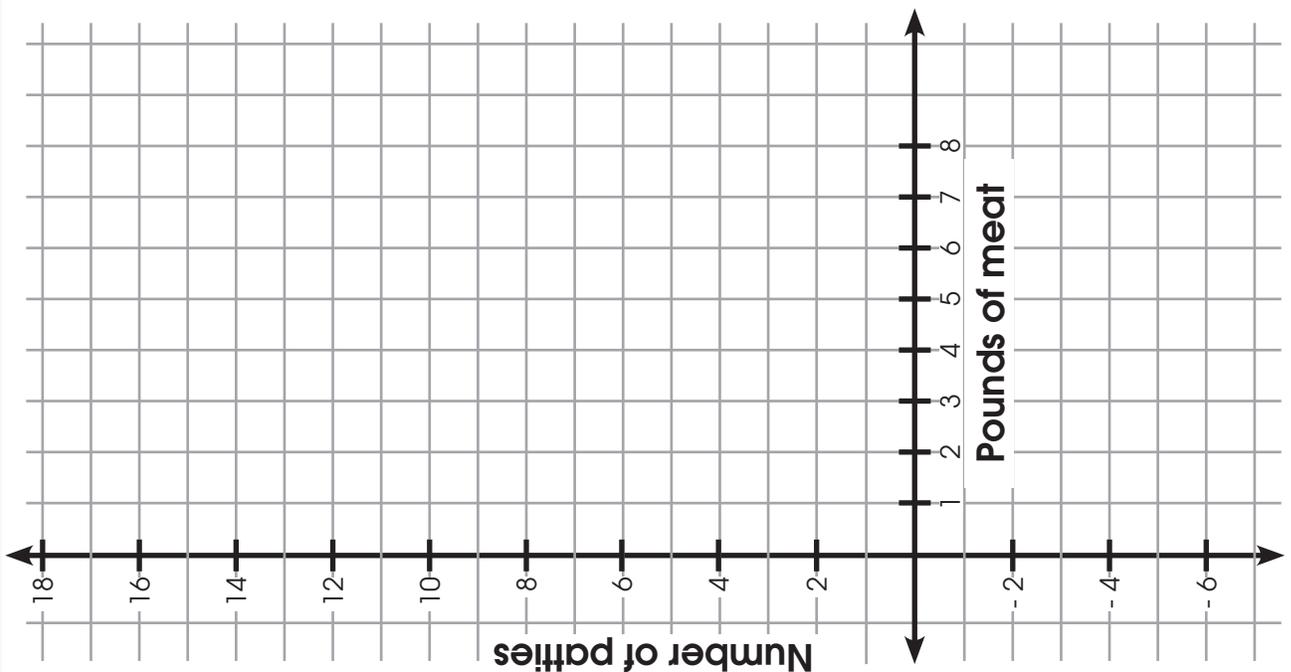
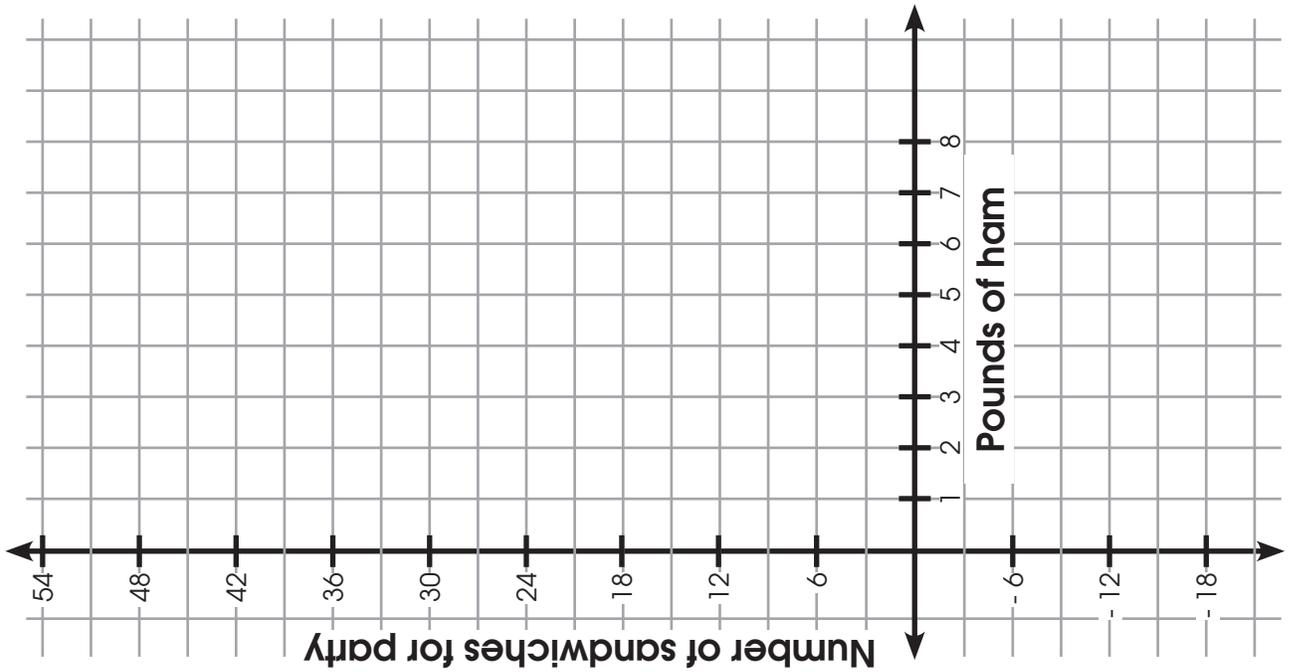
$$\text{---} = \text{---}$$

Burger Table

Pounds of meat x	Process	Number of patties y
1		3
2		
3		
4		
5		
6		



Graph Comparison



Ham Table

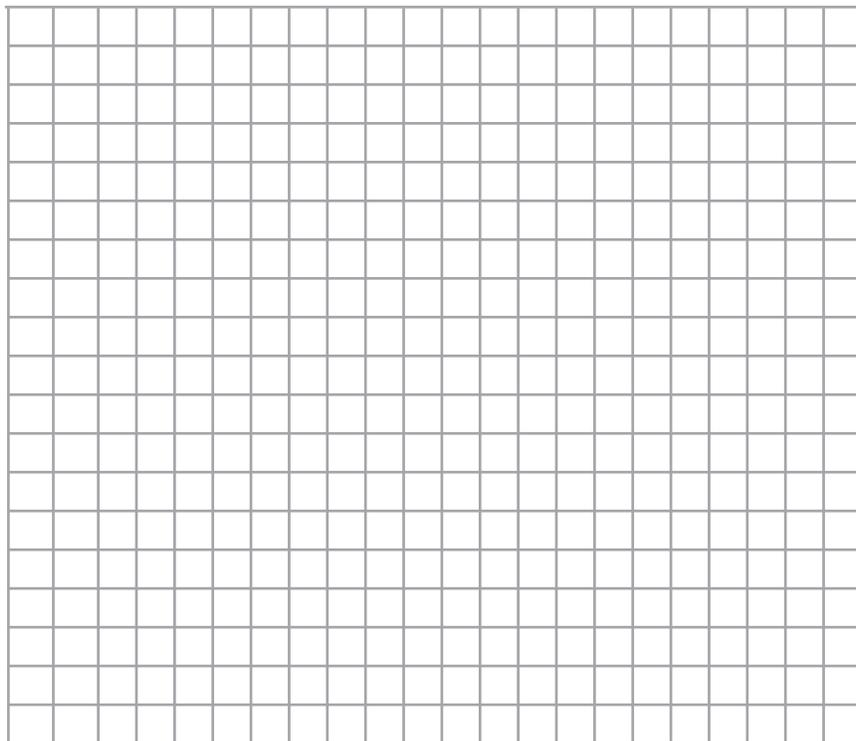
Pounds of ham x	Process	Number of sandwiches y
1		
2		
3		
4		
5		
6		

Practice

Create a table of values, graph the values, and determine whether each scenario is proportional.

1. A cupcake delivery company charges \$6 for each box of cupcakes.

Boxes of Cupcakes x	Process	Total Cost y
1		6
2		
3		
4		

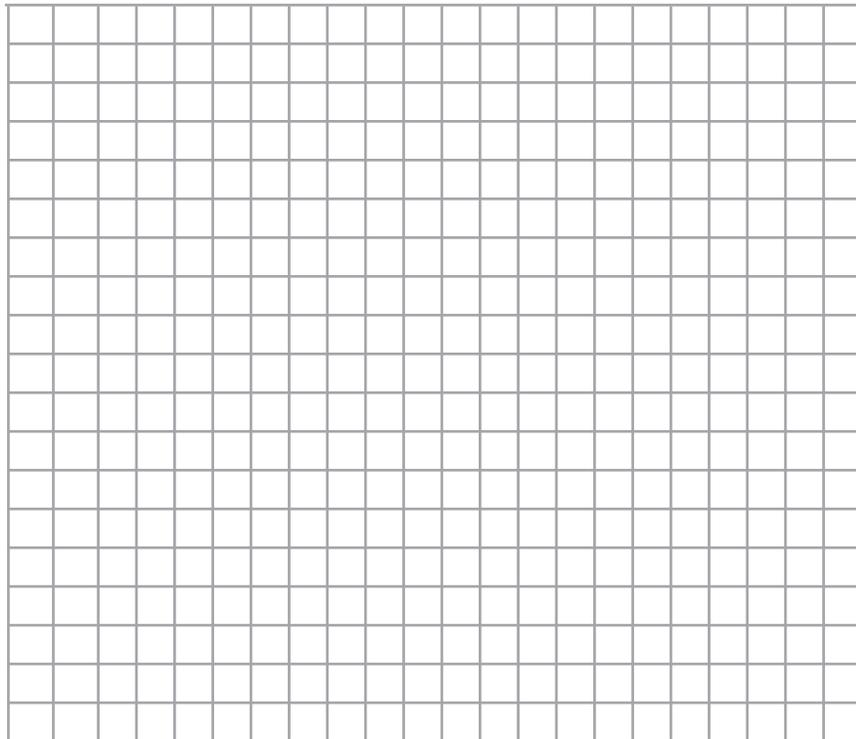


Is this relationship proportional? Why or why not?

Practice (cont.)

2. A cookie delivery company charges a \$3 delivery fee, plus \$4 for every box of cookies.

Boxes of Cookies x	Process	Total Cost y
1		7
2		
3		
4		



Is this relationship proportional? Why or why not?

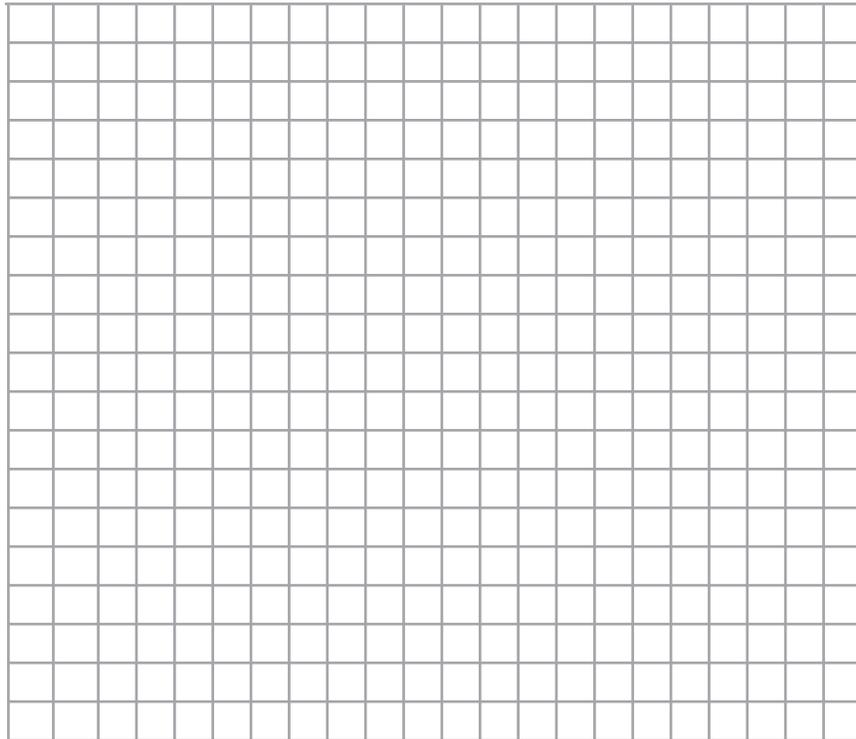
Name: _____

Independent Practice

Create a table of values, graph the values, and determine whether each scenario is proportional.

1. Bakery A charges \$4 for each loaf of bread.

Loaves of Bread x	Process	Total Cost y
1		4
2		
3		
4		

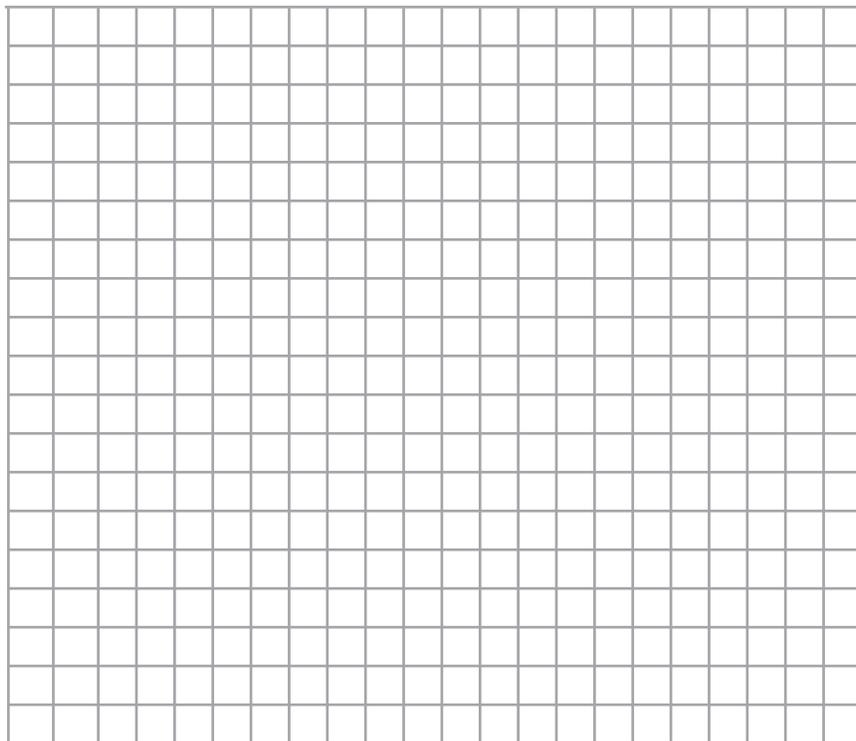


Is this relationship proportional? Why or why not?

Independent Practice (cont.)

2. Bakery B charges \$10 for a loyalty card and then \$3 for every loaf of bread.

Loaves of Bread x	Process	Total Cost y
1		13
2		
3		
4		



Is this relationship proportional? Why or why not?

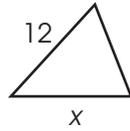
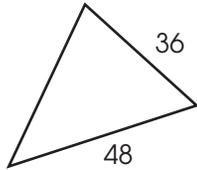


Answer Key: Cumulative Review

Assuming each pair of figures is similar, determine the missing side length, x , using 2 different proportions.

Answers will vary.

1.



$$\frac{12}{36} = \frac{x}{48}$$

$$\frac{36x}{36} = \frac{576}{36}$$

$$x = 16$$

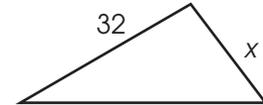
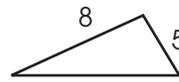
$$\frac{36}{48} = \frac{12}{x}$$

÷ 3

$$48 \div 3 = x$$

$$16 = x$$

2.



$$\frac{8}{5} = \frac{32}{x}$$

x 4

$$5 \times 4 = x$$

$$20 = x$$

$$\frac{8}{32} = \frac{5}{x}$$

$$\frac{160}{8} = \frac{8x}{8}$$

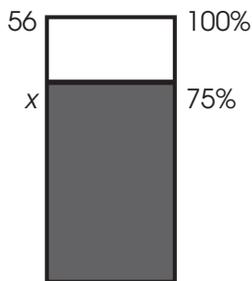
$$20 = x$$

Percent Bar Method

Given Information

Set Up Proportions

3. Tammy took a poll of 56 students in her eighth-grade class. She found out that 75% of her classmates enjoy reading historical fiction books. How many students in her class like historical fiction?



Part: x
Whole: 56
Percent: 75%

$$\frac{\text{Part}}{\text{Whole}} = \frac{\text{Percent}}{100}$$

$$\frac{x}{56} = \frac{75}{100}$$

$$\frac{4,200}{100} = \frac{100x}{100}$$

$$42 \text{ students} = x$$

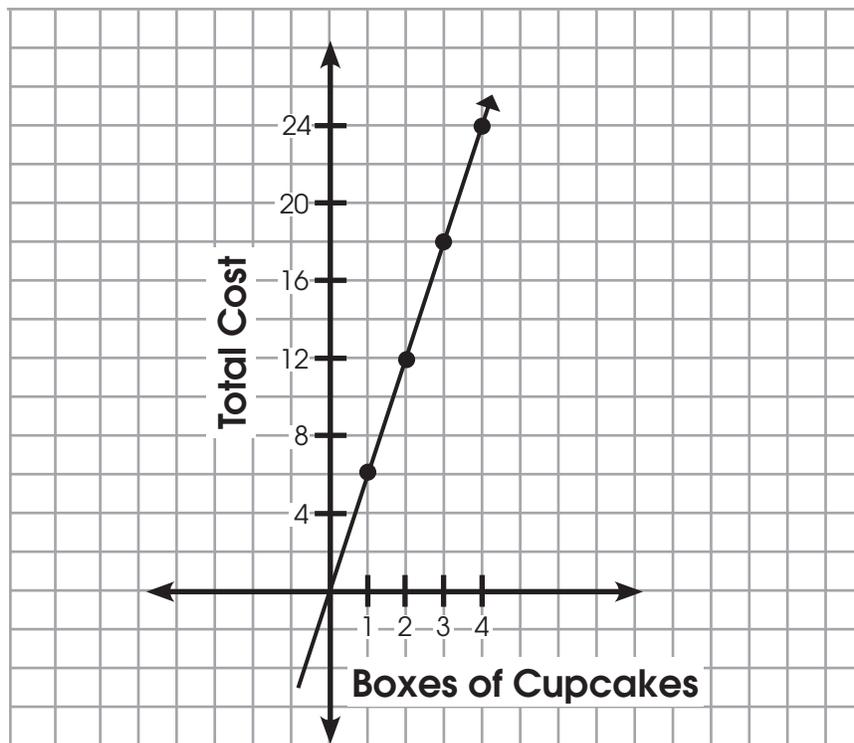


Answer Key: Practice

Create a table of values, graph the values, and determine whether each scenario is proportional.

1. A cupcake delivery company charges \$6 for each box of cupcakes.

Boxes of Cupcakes x	Process	Total Cost y
1	$6(1)$	6
2	$6(2)$	12
3	$6(3)$	18
4	$6(4)$	24



Is this relationship proportional? Why or why not?

The relationship is proportional because the graph passes

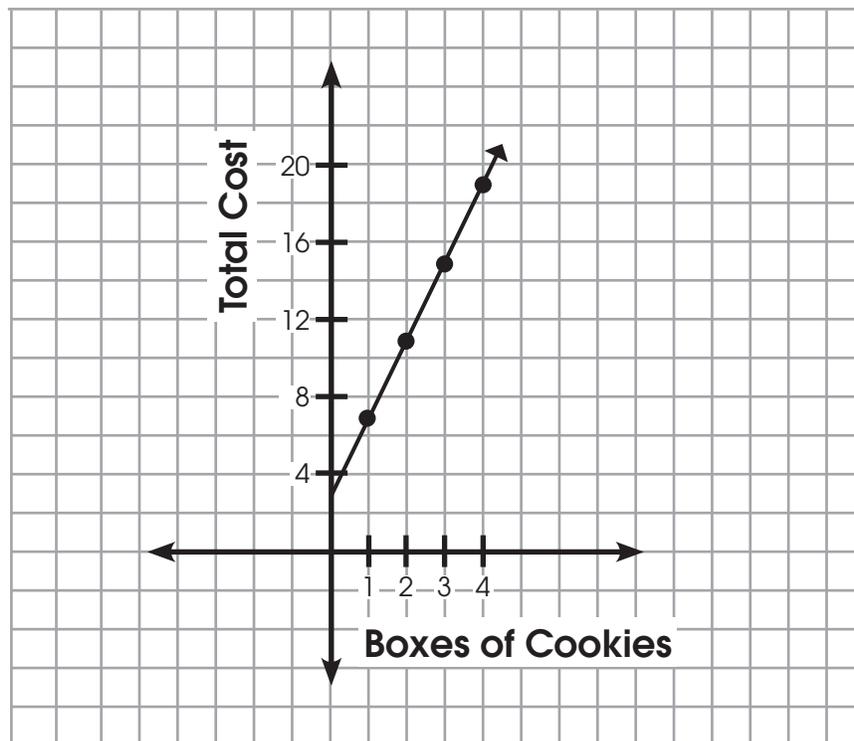
through the origin.



Answer Key: Practice (cont.)

2. A cookie delivery company charges a \$3 delivery fee, plus \$4 for every box of cookies.

Boxes of Cookies x	Process	Total Cost y
1	$3 + 4(1)$	7
2	$3 + 4(2)$	11
3	$3 + 4(3)$	15
4	$3 + 4(4)$	19



Is this relationship proportional? Why or why not?

The relationship is not proportional because the graph does not

pass through the origin.

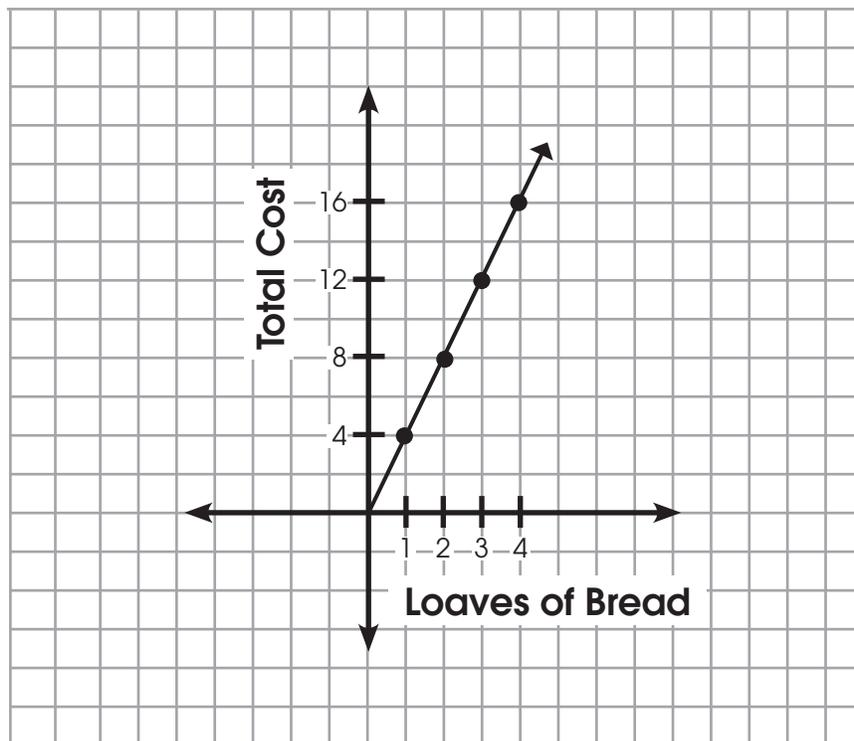


Answer Key: Independent Practice

Create a table of values, graph the values, and determine whether each scenario is proportional.

1. Bakery A charges \$4 for each loaf of bread.

Loaves of Bread x	Process	Total Cost y
1	$4(1)$	4
2	$4(2)$	8
3	$4(3)$	12
4	$4(4)$	16



Is this relationship proportional? Why or why not?

The relationship is proportional because the graph passes

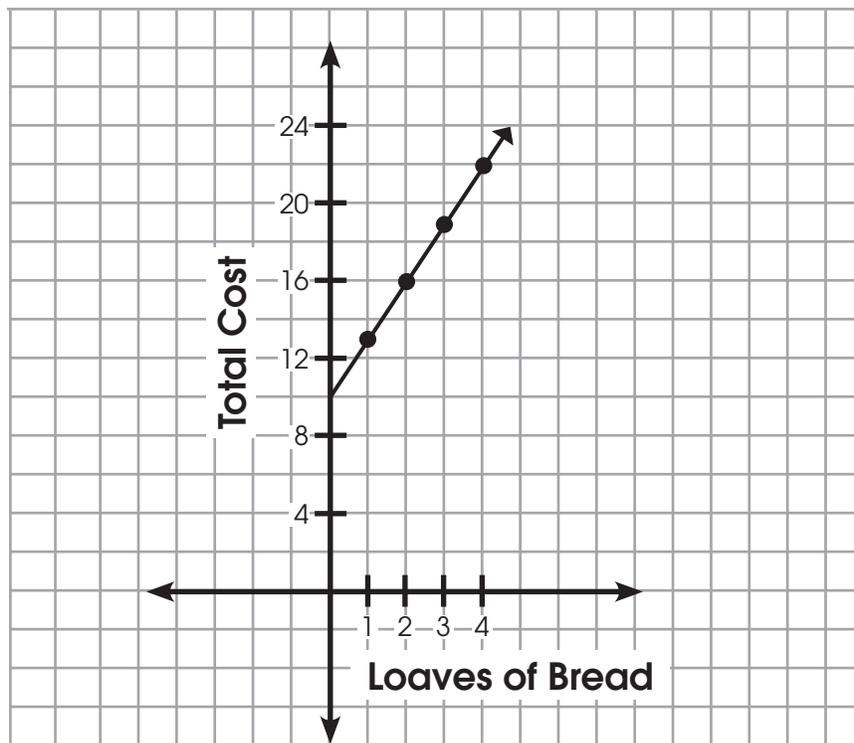
through the origin.



Answer Key: Independent Practice (cont.)

2. Bakery B charges \$10 for a loyalty card and then \$3 for every loaf of bread.

Loaves of Bread x	Process	Total Cost y
1	$10 + 3(1)$	13
2	$10 + 3(2)$	16
3	$10 + 3(3)$	19
4	$10 + 3(4)$	22



Is this relationship proportional? Why or why not?

The relationship is not proportional because the graph does not

pass through the origin.