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Lesson 4 Homework Practice

Ratio Tables

For Exercises 1– 3, use the ratio tables given to solve each problem.

1. **CAMPING** To disinfect 1 quart of stream water to make it drinkable, you need to add 2 tablets of iodine. How many tablets do you need to disinfect 4 quarts?

Number of Tablets	2			
Number of Quarts	1			4

2. **BOOKS** A book store bought 160 copies of a book from the publisher for $4,000. If the store gives away 2 books, how much money will it lose?

Cost in Dollars	4,000		
Number of Copies	160		2

3. **BIRDS** An ostrich can run at a rate of 50 miles in 60 minutes. At this rate, how long would it take an ostrich to run 15 miles?

Distance Run (mi)	50		15
Time (min)	60		

4. **SALARY** Luz earns $400 for 40 hours of work. Use a ratio table to determine how much she earns for 6 hours of work.

5. **DISTANCE** If 10 miles is about 16 kilometers and the distance between two towns is 45 miles, use a ratio table to find the distance between the towns in kilometers. Explain your reasoning.

RECIPES For Exercises 6–8, use the following information.

A soup that serves 16 people calls for 2 cans of chopped clams, 4 cups of chicken broth, 6 cups of milk, and 4 cups of cubed potatoes.

6. Create a ratio table to represent this situation.

7. How much of each ingredient would you need to make an identical recipe that serves 8 people? 32 people?

8. How much of each ingredient would you need to make an identical recipe that serves 24 people? Explain your reasoning.

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Enrich

Business Planning

In order to have a successful business, the manager must plan ahead and decide how certain actions will affect the business. The first step is to predict the financial impact of business decisions. Brooke has decided that she wants to start a brownie business to make extra money over the summer. Before she can ask her parents for money to start her business, she needs to have some information about how many batches of brownies she can make in a day and for how much she must sell the brownies to make a profit.

1. Brooke can bake 3 batches of brownies in 2 hours. Her goal is to bake 12 batches of brownies each day. Use the table to find how many hours Brooke will need to bake to reach her goal.

Batches of Brownies	3			12
Hours	2			

2. Each batch of brownies will be sold for $2.00. How much money will Brooke make if she sells 6 batches of brownies?

Batches of Brownies	1					
Cost	$2					

3. If Brooke works for 10 hours a day, how many batches of brownies can she bake?

Batches of Brownies	3	
Hours	2	10

4. Brooke hires a friend to help. Together, they can bake 24 batches of brownies in 8 hours. How long does it take for the two of them to bake 6 batches of brownies?

Batches of Brownies	6			24
Hours				8

5. If Brooke and her friend can bake 24 batches of brownies in 8 hours, and they both work 40 hours in one week, how many batches of brownies can they bake that week? If Brooke still charges $2.00 a batch, how much money will they make that week?

Batches of Brownies	1	
Cost	$2	