$\mathbf{2}$ Chapter Review

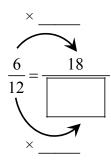
Key Words

For #1 to #5, write the number that matches the description.

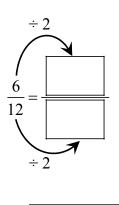
1.	proportion	 \$2.75 per tin
2.	ratio	 $\frac{3}{5}$
3.	3-term ratio	 $\frac{7}{50} = \frac{14}{100}$
4.	unit price	 4:3:2
5.	unit rate	 27 km/h

2.1 Two-Term and Three-Term Ratios, pages 58–67

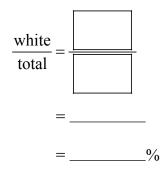
- 6. Use the square tile pattern to answer each question.
 - a) The ratio of white squares to total squares is _____: ____. Write 2 equivalent ratios for this ratio.



18:_



b) Find the percent of squares that are white.



Change the fraction to a decimal.

To change a decimal to a percent, multiply by 100.

N	ame:
T d	unic.

7.

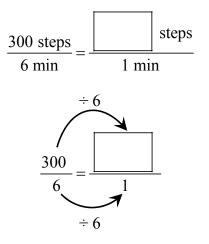
Date: _____

		phanie counted 20 vehicles in a parking lot. we were silver, 4 were blue, 2 were red, and 1 was yellow.				
	a)	What is the ratio of yellow to red to silver vehicles?				
	b)	What is the total number of silver, blue, red, and yellow vehicles?				
		Sentence:				
c) How many vehicles are not silver, blue, red, or yellow?						
		Sentence:				
	d)	d) Look at the number of each colour of vehicle. What does the ratio 4 to 20 show?				
	e)	e) Write the ratio of silver to total vehicles as a fraction, a decimal, and a percent.				
		$\frac{\text{silver}}{\text{total}} = \frac{}{} \qquad \leftarrow \text{fraction}$				
		= \leftarrow decimal				
		$=$ \leftarrow percent				

f) Write the ratio of silver to total vehicles from part e) in lowest terms.

2.2 Rates, pages 69–76

- **8.** Find the unit rates.
 - a) Stephen runs up 300 steps in 6 min.



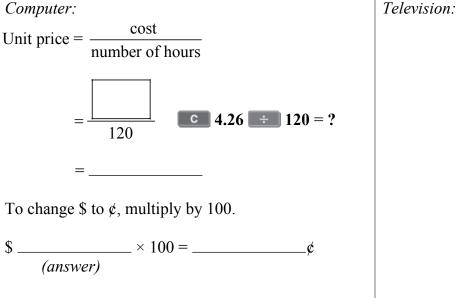
b) \$3.60 is the price of 4 L of milk.

The unit rate is ______ steps/min.

The table compares the monthly cost of electricity for a computer and a television. 9.

Equipment	Time On (h)	Monthly Cost (\$)
Computer and monitor	120	4.26
Television	180	3.46

What is the hourly unit cost for each piece of equipment? Round each answer to the nearest tenth of a cent.



The unit price is _____¢/h.

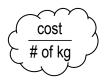
The unit rate is _____.

Name:

10. Groceries often cost more in Northern communities. Use the data in the table to answer the questions.

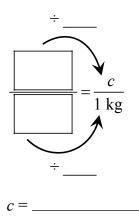
Item	Cost in Winnipeg	Cost in Little Grand Rapids
3 kg bananas	\$4.98	\$13.95

- a) Write the ratio of the cost of bananas in Winnipeg to the cost in Little Grand Rapids.
- **b)** Write the *rate* for the cost of 3 kg of bananas in Winnipeg.



- c) What is the unit price for bananas in Winnipeg?
- **d)** What is the unit price for bananas in Little Grand Rapids?

 $\frac{\cos t}{\# \text{ of } \text{kg}} = \frac{\cos t (c)}{1 \text{ kg}}$



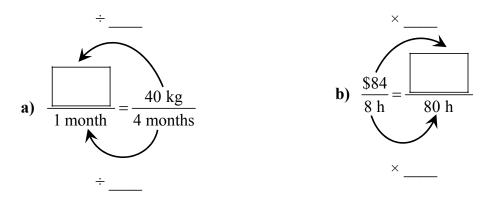
e) What is the difference in unit price for bananas for the 2 communities?

Sentence:

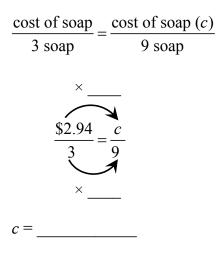
Name:

2.3 Proportional Reasoning, pages 78-86

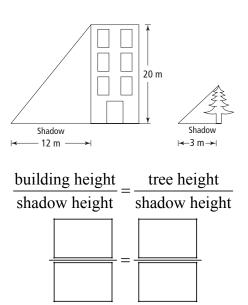
11. Find the missing value to make equivalent rates. Write the unit.



- **12.** Use a proportion to solve each question. Use a variable for the unknown quantity.
 - a) Three bars of soap cost \$2.94. What is the cost of 9 bars of soap?
- **b)** On a map, 1 cm represents 200 km. How many centimetres represent 800 km?



- 13. Compare the heights of objects to their shadows.
 - a) A 20-m building casts a 12-m shadow. What is the height of a tree with a shadow that is 3 m long?



Sentence: _____

b) A building with a height of 25 m has a shadow 8 m long. What is the height of a pole with a shadow 4 m long?

Draw a diagram:

Proportion:

Sentence: