Name'	

Date: _____



Rates

MathLinks 8, pages 55-62

Key Ideas Review

1. Unscramble the letters to form a word in each blank to complete the statement.

a) A rate is a comparison of two quantities measured in TFDIFEEI units.

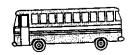
b) A rate can be expressed as a ______, but cannot be expressed as a ______, REPTONE

c) A unit rate is a rate in which the second term is ________NOE

d) To compare the cost of similar items a unit ______ is useful. EPCIR

Practise and Apply

- 2. Determine the unit rate. Show your thinking.
 - a) Riding 50 km in 3 h. Round your answer to the nearest hundredth.
 - b) Typing 660 words in 10 minutes.
 - c) Moving 216 students in 4 buses.



- d) Carrying 138 apples in 6 bags.
- e) Raising \$315 in 35 h.
- f) Driving 220 km in $2\frac{1}{2}$ h.

- 3. Calculate the unit rate for each situation. Show your thinking. Then, circle the greater rate for each pair.
 - a) \$210 for 30 h or \$198 for 20 h
 - b) 574 km in 7 h or 420 km in 5 h
 - c) 64 h of sunlight in 16 days or 69 h sunlight in 23 days
 - 4. The Mitchells' car used half a tank of gas when travelling from Edmonton to Calgary, a trip of about 300 km. If the fuel tank's capacity is 54 L, what was the car's fuel consumption rate in L/100 km?

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5. You are shopping for yogurt.







- a) What is the unit price for each container of yogurt?
- b) What is the unit price per 100 g for each container of yogurt?

c)	Which container is the best buy?
	Explain your thinking.

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$x_1,x_2,x_3,x_4 = x_1x_2x_2x_1 + x_1x_2x_3x_2 + x_1x_3x_3x_3 + x_1x_3x_4 + x_1x_3x_3x_4 + x_1x_3x_3x_3 + x_1x_3x_3x_3 + x_1x_3x_3x_3x_3 + x_1x_3x_3x_3x_3x_3x_3x_3x_3x_3x_3x_3x_3x_3x$	

- 6. Jeremy earned \$1365 after working for half of a year. He expects to continue working for the same number of hours each month, at the same pay rate.
 - a) How much will he earn in total after working for a year? Show two different ways of arriving at the answer.

If he works 10 hours a week,
what is his hourly rate of pay?
Show your thinking.

7. This table lists the approximate area and population of five countries.

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Country	Population	(km²)	Density
Canada	31 006 000	9 220 000	
Ecuador	12 562 000	278 000	
France	58 978 000	546 000	
Nether- lands	15 808 000	34 000	
United States	272 640 000	9 159 000	

a) Calculate the population density (population/km²) for each country listed. Show your thinking below, then record the values in the table rounded to the nearest hundredth.

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:)	Is population density a rate? Yes No Explain.

density.