

Name: _____

Date: _____

Math 200 Test Remake ~ Chapter 2 Proportional Relationships

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1. This morning, Lucas played 18 holes of golf. He shot 3 birdies (1 stroke below par), 8 par holes, and 7 bogeys (1 stroke over par).

Determine the ratio:

- a) birdies: bogeys. _____ b) par holes: holes played. _____

2. Give the rate per unit for each of the following.

a) This week, Theresa earned \$408 for 32 hours of work. _____

b) In one neighbourhood, a 25 m by 30 m lot sells for \$8775. _____

c) It took Claire 2 hours to complete a 40-question exam. _____

d) Since the beginning of the hockey season, a goalie has allowed 25 goals in 8 games. _____

3. Enter the appropriate symbol (<, > or =) between each of the given ratios.

a) 2 : 3 _____ 6 : 9 b) 5 : 8 _____ 10 : 15

c) 4 : 5 _____ 6 : 7 d) 3 : 7 _____ 6 : 11

4. Last Tuesday, Marge's 40 cows produced 528 litres of milk. Cecil's 25 cows produced 370 litres of milk. **Whose cows were more productive** on that day?

5. Alison and her friends won \$130 000 in a lottery. They will each have an equal share of the prize.

What can be said about each person's share:

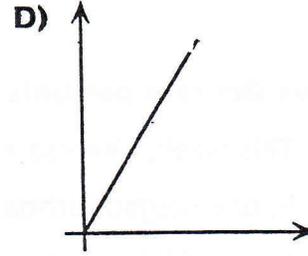
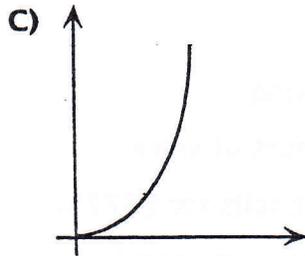
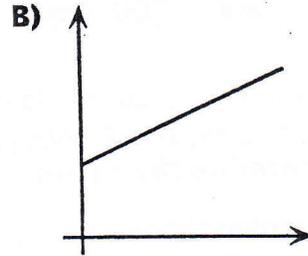
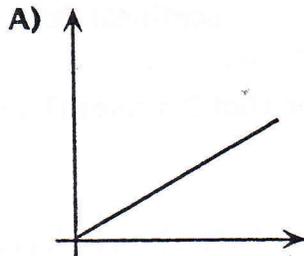
a) if the amount won was smaller? _____

b) if there were more people in her group of winners? _____

c) if there were half as many in the group? _____

6. An omelette for 3 people takes 5 eggs. **How many eggs** are needed to make an omelette for 9 people?

7. Below, **circle** each graph that represent a proportional situation.



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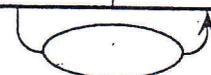
8. Complete the table of proportional values below and give the coefficient of proportionality?

a)

<u>1</u>	<u>0</u>
2	5
4	
5	
12	

b)

<u>1</u>	<u>0</u>
9	3
15	
24	
42	



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9. The following sign is placed at the entrance to an amusement park. **Is this** a proportional situation? **Explain.**

Entrance free

<u>Number of tickets</u>	<u>Cost</u>
10	\$2
15	\$3
25	\$5
40	\$8

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10. Oranges are not only delicious, they are also a great source of Vitamin C and a healthy source of energy. If 4 oranges produce 1400 joules of energy, how many **oranges** will it take to produce 3150 joules of energy?

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