SAMPLE CHAPTER 1 TEST

Choose the best response to each of the following questions:

1. Jean and her best friend, Verna, want to buy 3 DVDs that are regularly priced at $20.00 each. Today, three stores, A, B, and C, have the DVDs on sale. At which store will the friends spend the least amount of money if they buy 3 DVDs?

DVD SALES	
Store	*Sale offer*
A	Buy 1 and get 2 for half price!
B	All DVDs on sale at 35% off!
C	Buy two and get one free!

a) Store A   b) Store B   c) Store C   d) Stores A and C

2. Lisa is managing a popular new band. Each of the songs the band plays is 3 to 5 minutes long. Lisa needs to let the venue where the band will be performing know approximately how many songs they will play in two hours. Which is the best estimate?
a) 8 songs   b) 12 songs   c) 20 songs   d) 30 songs

3. Whose rate of pay is the highest?
a) Antoine earns $66.00 in 8 hours.   b) Laurie earns $72.00 in 5 hours.
c) Ken earns $51.00 in 5 hours.   d) Sara earns $89.00 in 6 hours.

4. Janine just came home from a vacation in Cancún, Mexico and has 300.00 pesos left over. If the bank buys pesos at $0.083 443 CAD, how much will Janine get back in Canadian dollars?
a) $25.03   b) $3595.27   c) $359.53   d) $250.30

5. Alicia will be going to a construction trade show in Paris this year. Her budget is $1200.00 CAD. If the bank sell rate is one euro for $1.644 814 CAD, how many euros will she have to spend in Paris?
a) €1973.78   b) €729.57   c) €731.71   d) €1968.00

6. Find the unit cost of each of the following items. Show your calculations.
a) a package of 10 wood floor tiles for $69.07 b) a package of 25 Richelieu screws for $1.45

7. Write as a unit rate. Show your calculations.
a) 25 m of tape for $0.95   b) 120 words typed in 3 minutes
c) driving 240 km in 4 hours   d) $22.80 for 3 hours of work

8. Jerome must arrange for catering for a lunch at the office where he works. The caterer tells him that they charge $65.00 for six people and $12.00 for each additional person. There will be between 9 and 15 people at the lunch. Before he can place the order, the accounting office needs Jerome to complete a budget form that shows the price for each person.

a) Find the cost for each person if 10 people attend the lunch. Show your calculations.
b) Fill in the table and show your calculations below.

Number of people	9	10	11	12	13	14	15
Cost							

9. Patrick and Lylah work as lift truck operators in a warehouse. They can unload pallets of goods off transport trucks and shelve them at the same speed. It takes Patrick 1 hour to unload and shelve 17 pallets. How long would it take Lylah to unload and shelve 25 pallets? Show your work.

10. The Fredericton Food Bank has started its semi-annual food drive. To support the drive, local grocery stores have advertised a sale on canned soup. Two different brands of soup are available in large quantities. Tastes Like Homemade is being sold at $18.89 for 12 cans of 284 mL. Savoury Soup is being sold at $30.69 for 24 cans of 284 mL.

a) Which is the better deal between these two brands? Justify your answer by showing two different ways to solve this question.
b) If a school raises $500.00 to buy soup for the food bank, how many cans of the lowest-priced soup can the school buy?

11. Stan has a part-time job working 12 hours a week. His gross pay is $110.20 a week. Cecelia has a part-time job working 8 hours a week. Her gross pay is $90.40 a week.
a) Find the ratio of the number of hours Stan works to the number of hours Cecelia works during a week.
b) Find Stan's gross hourly rate of pay.
c) Find Cecelia's gross hourly rate of pay.
d) Find the ratio of Stan's gross hourly rate of pay to Cecelia's gross hourly rate of pay.

12. You have decided to buy a new car and must choose between a regular model and a hybrid model. The hybrid model uses less fuel since it uses an electric motor to power the car when it is possible.

Model	Price including taxes and shipping	Average fuel economy (L/100 km)
Regular model	$24 456.00	12.4
Hybrid model	$25 840.00	10.8

a) How many litres of fuel will be required to drive each vehicle 24 000 km?
b) Fuel costs $1.03/litre. How many kilometres would you need to drive to save enough money in fuel to pay for the extra cost to buy the hybrid?
c) Why might you choose to purchase the hybrid even if you planned to sell the car in 2 years?