

## Chapter 1 Test

Use the exchange rates from the following chart.

| Canadian Dollar |          |         |
|-----------------|----------|---------|
|                 | C\$1     | in C\$  |
| US dollar       | 0.991051 | 1.00903 |
| Euro            | 0.727323 | 1.37490 |

Use the following conversions

1 US gallon  $\approx$  3.79 litres

1 cup  $\approx$  0.24 litres

For #1 to #3, select the best answer.

1. Which of the following has the lowest unit price?
  - A 25 mL for \$0.58
  - B 50 mL for \$1.08
  - C 1750 mL for \$40.00
  - D 1 L for \$35.00
2. The standard oil barrel size is 42 US gallons. If an oil pipeline leaks approximately 100 barrels a day, which of the volumes below is closest to the number of litres leaked per day?
  - A 400 L
  - B 4200 L
  - C 12 300 L
  - D 16 000 L
3. You have 50 euros. What is the closest equivalent in Canadian dollars?
  - A \$36.30
  - B \$68.95
  - C \$68.00
  - D \$69.80
4.
  - a) If the temperature of water is 10 °C, what is it in Fahrenheit to the nearest degree?
  - b) If the air temperature is 106 °F, what is it in Celsius to the nearest degree?
5. Max sees that 450 g of ground beef is on sale for \$1.98 at the BCD Store and is regularly priced at \$3.99 per kilogram at the EFG Market.
  - a) What is the unit price of each? Which is cheaper?
  - b) The BCD Store raises the price of ground beef to \$2.49 for 450 grams. What is the percent increase to the nearest whole percent?
  - c) What else should Max consider before he decides which size to buy?



**BLM 1-7**

(continued)

- 6.** Pres is going to set up a fish tank that he bought from an American manufacturer.
- a)** If the capacity is 650 US gallons, what is the capacity in litres?
  - b)** The floor under the tank must be strong enough to support it. A 650-gallon tank weighs approximately 5000 lb. What is that in kilograms, to the nearest kilogram?
  - c)** The temperature of the tank is set at 35 °F. What is this in Celsius to the nearest degree?
- 7.** A bus tour group is visiting Peggy's Cove from New York.
- a)** The driver pays \$142.32 for 120 L of gas. How many gallons of gas is this, to the nearest gallon?
  - b)** What is the cost per litre?
  - c)** If the price of gas in New York is C\$3.25 per US gallon, how much would a litre cost? Round your answer to the nearest hundredth.
- 8.** While shopping in Maine, Dick bought golf clubs for US\$1499.00 and shoes for US\$49.00. He needs to declare his purchases at the border.
- a)** How much did he spend in US dollars?
  - b)** What is the equivalent in Canadian dollars? Round your answer to the nearest dollar.
- 9.** A smoked salmon brine recipe calls for  $\frac{1}{4}$  cup of maple syrup for every cup of soya sauce. Billy needs to make up 30 litres of brine to fill his container. What metric amount does Billy need?

