## **CHAPTER 1 TEST REVIEW Solutions**

- 1. When he works as a landscape gardener, Mark sometimes uses a powdered fertilizer. It must be mixed at a rate of 1 part of powder to 14 parts of water. How much water will Mark use for 3 litres of powder? (42 litres)
- 2. A car uses 5.5 litres of gas when it travels 100 km.
  - a) Express this as a rate of fuel consumption. (5.5 L/100km or 1.1L/20 km)
  - b) How much fuel would be needed for a 400-km trip? (22 Litres)
- 3. Loretta works as a surveyor near Burwash Landing, YT. Her map uses a scale of 2.5 cm:100 km. On her map, two sites she must visit are 7.4 cm apart. What is the actual distance between the two sites? (296 km)
- 4. If a package of 12 pens cost \$38.98, what is the cost of 1 pen? (\$3.25)
- 5. If the wholesale price of 10 packages of smoked salmon is \$99.50, what will the cost be for one package after a markup of 45%? (\$14.43)
- 6. The bakery in Lund, BC is selling day-old buns at a 40% reduction. If the regular price is \$4.79/doz, what is the reduced price? (\$2.87)
- 7. A sofa in a furniture store was originally \$1899.00. The price was "reduced by 35% for quick sale." When it did not sell, the manager offered another reduction of 20%.
  - a) What was the final price of the sofa with 5% GST and 7% PST? (987.48 x 1.12 = \$1105.98)
  - b) Is this the same as a 55% reduction? Show why or why not.

(55% reduction = 854.55 x 1.12 = \$957.10.55% is off original price where 20% is off lower price so less of a discount)

- 8. A furniture store in The Pas, Manitoba, advertises: "All weekend, no GST and no PST." If GST and PST are usually 5% each, what is the actual saving as a percent on an item that costs \$24.97? (\$2.50)
- 9. After prime planting season was over, a horticulturist sold lilac bushes for \$15.00. If the original price was \$39.00, what is the percentage markdown? (61.5%)
- 10. Non-profit agencies get a 12% reduction from Polly's Printers. How much will they save on a printing job that regularly costs \$865.00? (\$761.20)
- 11. James works for an industrial lighting company. He travels to Hong Kong to attend a trade show. James sees a fluorescent track lighting unit priced at 1295.31 Hong Kong dollars. What is the cost in Canadian dollars if \$1.00 CAD is worth 7.3181 Hong Kong dollars? (\$177)
- 12. Marian travels to Spain to visit her mother and father.
  - a) \$1.00 CAD is worth €0.680228. If Marian converts \$450.00 CAD into euros, how many euros does she receive? (\$306.10)
  - b) During her visit, Marian buys a leather purse for €125.00. What is the cost in Canadian dollars? (\$163.76)