**CHAPTER 1 TEST Name:**

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?

2. A car uses 5.5 litres of gas when it travels 100 km.

a) Express this as a rate of fuel consumption.

b) How much fuel would be needed for a 400-km trip?

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

4. If a package of 12 pens cost $38.98, what is the cost of 1 pen?

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%?

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?

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?

 b) Is this the same as a 55% reduction? Show why or why not.

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?

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?

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?

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?

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?

b) During her visit, Marian buys a leather purse for €125.00. What is the cost in Canadian dollars?