Practice Questions Chapter 2

## Lesson 3

## **Calculating Currency Exchange**

1. Dalton wants to purchase a handheld GPS system for hiking. He found the item he needs on an American website, where it is listed for \$194.99 USD. He then found the exact same item on a Canadian website, where it was listed for \$249.99 CAD. Do these two items cost the same?

**Step 1:** Set up the ratios. Change the American price to Canadian funds for a fair comparison.

$$\frac{\$1 \text{ CAD}}{\$0.91 \text{ USD}} = \frac{x \text{ CAD}}{\$194.99 \text{ USD}}$$

*Step 2: Solve for the unknown value.* 

Multiply both sides by \$194.99 USD.

$$\frac{\$1 \text{ CAD}}{\$0.91 \text{ USD}} = \frac{x \text{ CAD}}{\$194.99 \text{ USD}}$$

$$(\$194.99 \text{ USD}) \times \frac{\$1 \text{ CAD}}{\$0.91 \text{ USD}} = \frac{x \text{ CAD}}{\$194.99 \text{ USD}} \times (\$194.99 \text{ USD})$$

$$\frac{\$194.99 \times \$1 \text{ CAD}}{0.91} = x \text{ CAD}$$

$$\$214.27 = x$$

The price of \$194.99 USD is equal to \$214.27 CAD. It would be better to purchase the GPS system from the American website at this exchange rate.

Chapter 2 Practice Questions

2. Kurt wants to buy his mom some perfume from Europe. He found her favourite brand for €27.95. What is the price, in Canadian funds?

Step 1: Set up the ratios. Change the European price to Canadian funds.

$$\frac{\$1 \text{ CAD}}{\$0.66 \text{ EUR}} = \frac{x \text{ CAD}}{\$27.95 \text{ EUR}}$$

Step 2: Solve for the unknown value. Multiply both sides by  $\in 27.95$ .

$$\frac{\$1 \text{ CAD}}{\$0.66 \text{ EUR}} = \frac{x \text{ CAD}}{\$27.95 \text{ EUR}}$$

$$\left(\$27.95 \text{ EUR}\right) \times \frac{\$1 \text{ CAD}}{\$0.66 \text{ EUR}} = \frac{x \text{ CAD}}{\$27.95 \text{ EUR}} \times \left(\$27.95 \text{ EUR}\right)$$

$$\frac{\$27.95 \times \$1 \text{ CAD}}{\$0.66} = x \text{ CAD}$$

$$\$42.35 = x$$

The perfume will cost Kurt \$42.35 CAD.