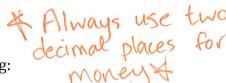## 4.1  Unit Price and Best Buy

When you are shopping, you often face the dilemma of determining which is the best price. Food items, especially, come in different sizes for different prices. Finding the **unit price**, the amount of money per unit of an item, can help you to determine which you should buy.

**Examples**

$-\dfrac{price}{\#of}$

*Always use two decimal places for money*

**Ex 1.** Find the unit price of the following:

a)  $3.99 for 12 cans of pop

$$\frac{\$3.99}{12} = \$0.3325/can = \$0.33/can$$

b) $1.69 for 8 oranges

$$\frac{\$1.69}{8 \text{ oranges}} = \$0.2125/orange = \$0.21/orange$$

c)  50 g of chips for $0.99

$$\frac{\$0.99}{50g} = \$0.0198/g = \$0.02/g$$

**Ex 2.** A 300 g package of pepperoni costs $4.29.

a)  What is the cost per 100 g?

$$\frac{\$4.29}{300g} = \$0.0143/g \times 100 = \$1.43/100g$$

OR

$$\frac{\$4.29}{3}$$ since there are 3 groups of 100g in 300g. $$= \frac{\$1.43}{100g}$$

b)  How much would 1 kg of pepperoni cost?

$1000 g = 1 kg$

$$\frac{\$0.0143}{g} \times 1000 g = \$14.30$$

**Ex 3.** Which is the better buy:

a)  5 oranges for $1.65 or 8 oranges for $2.77?

$$\frac{\$1.65}{5 \text{ oranges}} = \$0.33/orange$$

$$\frac{\$2.77}{8 \text{ oranges}} = \$0.35/orange$$

b)  400 mL of ketchup for $2.89 or 900 mL for $4.98?

$$\frac{\$2.89}{400mL} = \$0.0072.../mL$$

$$\frac{\$4.98}{900mL} = \$0.0055.../mL$$