## Sec 5.9/5.10 – Exploring and Comparing Rates

- 1. <u>Rate</u>
  - > A rate is a ratio of two <u>numerical</u> quantities.
  - > A rate compares two quantities measured in two different units.
  - > A rate can be expressed as a ratio or a fraction.
  - $> 60 \text{ km/h} = 60 \text{ s} | \underline{OR} \frac{60 \text{ km}}{1 \text{ hr}}$

## 2. Unit Rate

 $\blacktriangleright$  Compares two quantities in which the second quantity is \_/\_\_\_.

## 3. Unit Price

A unit price is a unit rate that makes it easier to compare the <u>Value</u> of similar items.

Example - Which container is the better buy? Find the cost for a 1kg box. 800g box of Cheerios for \$9.60 or 900g box of Cheerios for \$9.90.

**Practice** 

- 1) Write the following as a unit rate.
- a) 5 people are infected by smallpox every 2 days.

b) Jill earns \$88 for working 8 h.

c) Cat food costs \$9 for five cans.

2) At Ed's Grocery, one brand of salsa is sold in the following container sizes: 425 mL for \$3.44, 642 mL for \$6.29 and 1.7 L for \$15.49. Which container of salsa is the best buy?