Example 1: Solve.

a)
$$\frac{x}{10} \times \frac{70}{13}$$
 (b) $\frac{3}{x} \times \frac{10}{17}$ $|3x = 10(70)$ $|0x = 3(17)$ $\frac{13x}{13} = \frac{700}{13} = \frac{10x}{10} = \frac{51}{10} = \frac{51}{10} = \frac{51}{10}$

Example 2: A 2 L carton of chocolate milk costs \$4.26. What is the unit rate?

Example 3: The grocery store sells peaches for \$0.89/lb. The farmers' market sells a 10 kg basket of peaches for \$15.50. Determine the price per kilogram at each location. Who has the lower price? (1 kg = 2.2 lb)

$$10 \text{ kg} \times \frac{2.2 \text{ b}}{1 \text{ kg}} = 22 \text{ b}$$
 $\frac{$15.50}{22 \text{ lb}} = \frac{$0.70/16}{}$

Example 4: A screw has 64 turns over a distance of 50 mm of thread. Determine the number of turns in a screw with the same pattern over 40 mm of thread.

$$\frac{64 \text{ twns}}{50 \text{ mm}} \times \frac{x}{40 \text{ mm}}$$

$$50x = 64(40)$$

$$\frac{50x = 2560}{50} \quad x = 51.2$$
Example 5: An illustration is 14 cm by 20 cm. A copy is made using a scale factor of

75%. What are the dimensions of the copy?