

1.2 Unit Price

Guided Notes

Unit Price is how much 1 thing costs eg. \$3 for 1 cookie

Unit Rate is how much 1 thing is eg. 50 km/h

Why is it important to consider unit price and rate?

A way to compare cost of food

Examples:

- Rosa buys supplies for the hamlet office in Arviat, Nunavut where she works as a clerk. She wants to buy pens. The supplier sells a box of 12 pens for \$6.25. Calculate the unit price of 1 pen.

unit price

$$\frac{\$6.25}{12 \text{ pens}} = \frac{x}{1 \text{ pen}}$$

$$x = 52^{\text{¢}} \text{ or } x = \$0.52$$

- A 200g bag of chips cost \$1.00. A 750 g bag of chips costs \$2.70. Which size is the better value?

$$\frac{200\text{g}}{\$1} = \frac{100\text{g}}{x}$$

$$x = \$0.50$$

$$\frac{750\text{g}}{\$2.70} = \frac{100\text{g}}{x}$$

$$x = \$0.36$$

750g

- Claire picks fresh strawberries at a U-pick farm in Portage la Prairie, Manitoba. If she fills a pint basket (0.5506 litres), it will cost her \$1.50. If she fills a 4 litre ice cream pail, it will cost \$9.00. Which size of container will give her a better buy? What else might Claire have to take into consideration when making her purchase?

$$\frac{0.5506\text{L}}{\$1.50} = \frac{1\text{L}}{x}$$

$$x = \$2.72$$

$$\frac{4\text{L}}{\$9} = \frac{1\text{L}}{x}$$

$$x = \$2.25$$

4L

how much do you need?
can you freeze the extra?

4. Shirin is the manager of a fabric store and is training a new employee. Shirin wants to make an easy reference chart that lists the prices of different lengths of a fabric. One metre of the fabric costs \$8.42. Fill in the rest of the chart.

Fabric Cost by Length	
Length of Fabric	Cost of Fabric
0.5 m	\$4.21
1 m	\$8.42
1.75 m	\$14.74

$$\rightarrow 8.42 \div 2$$

$$\begin{aligned} \$ \frac{1\text{m}}{8.42} &= \frac{1.75\text{m}}{x} \\ x &= \$14.74 \end{aligned}$$