

A graphic with a blue and red gradient background. The word "LESSON" is written in white capital letters at the top, and the number "6.3" is written in white below it.

## Unit Pricing

Vocab:

Unit Pricing - the cost per unit that you buy.  
(ex. \$ per gal)

LESSON  
6.3

## EXAMPLE

Shane Ladd purchased a 64-ounce container of orange juice for \$3.49, a 2-liter bottle of bleach for \$1.99, and a dozen ears of sweet corn for \$3.50. What is the unit price of each item to the nearest tenth of a cent?

$$\text{OJ} \rightarrow \frac{3.49}{64} = \$0.054 \text{ per oz}$$

$$\text{Bleach} \rightarrow \frac{1.99}{2} = \$0.995 \text{ per liter}$$

$$\text{Corn} \rightarrow \frac{3.50}{12} = \$0.292 \text{ per ear}$$

**LESSON**  
**6.3**

Find the unit price to the nearest tenth of a cent. Check your answers in the back of the book.

1. A 4.5-pound chicken costs \$5.25.

$$\frac{5.25}{4.5} = \$1.167 \text{ per lb}$$

- 1
2. A 20-count package of plastic storage bags costs \$2.29.

$$\frac{2.29}{20} = \$0.115 \text{ per bag}$$



## Comparison Shopping

**Vocab:**

Comparison Shopping - looking at unit prices  
to get the best deal

**LESSON  
6.4****EXAMPLE 1**

Tolliver's Groceries sells ranch salad dressing in three sizes. The price of a 16-ounce bottle is \$3.49, of a 20-ounce bottle is \$4.69, and of a 36-ounce bottle is \$6.19. Based on price alone, which package is the best buy?

$$\frac{3.49}{16} = 0.218$$

$$\frac{4.69}{20} = 0.235$$

$$\frac{6.19}{36} = 0.172$$

36-oz

## LESSON

## 6.4

Find the better buy. Check your answers in the back of the book.

1. Facial tissues: 75-count box for \$1.49; 184-count box for \$2.89.

$$\frac{1.49}{75} = 0.020$$

$$\frac{2.89}{184} = 0.016$$

## LESSON

## 6.4

Find the better buy. Check your answers in the back of the book.

2. Granola cereal: 14-ounce box for \$2.50; 20-ounce box for \$3.58.

$$\frac{2.50}{14} = 0.179$$

0.1786

14 oz

$$\frac{3.58}{20} = 0.179$$

**LESSON**  
**6.4**

**EXAMPLE 2** Algebra

Justin Sanders computed the unit price of a 2-liter bottle of a soft drink and found it to be \$0.005 more per ounce than the unit price on a ~~12-~~ pack of 12-ounce cans of the same soft drink. If the 2-liter bottle costs \$1.19 less than the cost of the 12-pack of 12-ounce cans, find the cost of a 2-liter bottle and the cost of the 12-pack of 12-ounce cans. (Note that 2 liters are equivalent to 67.6 fluid ounces.)

144 oz

$$u.p. 2L = u.p. 12pack + 0.005$$

$$\frac{x}{67.6} = \frac{x+1.19}{144} + \frac{0.005 \cdot 144}{144}$$

$$\frac{x}{67.6} = \frac{x+1.19+0.72}{144}$$

$$144x = 67.6(x+1.91)$$

$$144x = 67.6x + 129.116$$

$$76.4x = 129.116$$

$$x = 1.69 \text{ 2L}$$

$$\frac{1.69 + 1.19}{2} = 2.88 \text{ per 12 oz}$$



**LESSON**  
**6.4**

Complete the problem. Check your answer in the back of the book.

3. The unit price on a 100-pound container of swimming pool chlorine is \$0.06 per pound less than the unit price on a 75-pound container. If the 100-pound container costs \$55.50 more than the 75-pound container, find the cost of each.

$$\text{up } 100\text{lb} = \text{up } 75\text{lb} - 0.06$$

$$\frac{x + 55.50}{100} = \frac{x}{75} - \frac{0.06 \cdot 75}{75}$$

$$\frac{x + 55.50}{100} = \frac{x - 4.5}{75}$$

$$75(x + 55.50) = 100(x - 4.5)$$

$$\begin{array}{r} 75x + 4162.50 = 100x - 450 \\ -75x \quad + 450 \quad -75x \quad + 450 \end{array}$$

$$\frac{4612.50}{75} = \frac{25x}{75}$$

$$x = 184.50 \text{ 75-lb}$$

$$\# 240 \text{ 100-lb}$$