## Study Tip

An old saying is " $A$ pint is a pound the world around." The actual weight of a pint of water is about 1.04 pounds. There are 8 pints in a gallon, so a gallon of water weighs about 8.32 pounds.

For milk to be labeled "organic," the cows must meet four criteria.

- Not treated with grow th hormone
- Not given antibiotics while in a herd
- Not fed feed treated with pestic ides
- Must have access to pasture


## EXAMPLE 2 Analyzing a Unit Price

Dairy farmers are paid for every 100 pounds of milk produced.
a. In 2010, how much did a dairy farmer earn per gallon of milk produced?
(A gallon of whole milk weighs about 8.6 pounds.)
b. In 2010, the price of a gallon of milk was about $\$ 3.25$. What percent of the price did the dairy farmer earn?


## SOLUTION

a. In 2010, a dairy farmer earned about $\$ 16.50$ for every 100 pounds of milk produced.

$$
\text { Unit price }=\frac{\$ 16.50}{100 \mathrm{lb}}=\frac{\$ 16.50}{100 \not \supset 6}\left(\frac{8.6 \not \supset \mathrm{~b}}{1 \text { gal }}\right)=\frac{\$ 1.419}{\text { gal }}
$$

A dairy farmer earned about $\$ 1.42$ per gallon of milk produced.
b.


The dairy farmer earned about $44 \%$ of the price.

## $\sqrt{ }$ Checkpoint

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In 2010, a dairy farmer earned about $\$ 25$ for every 100 pounds of milk produced organically. The price of a gallon of organic milk was about $\$ 5.25$.
c. How much did a dairy farmer earn for a gallon of organic milk in 2010 ?
d. What percent of the price did the dairy farmer earn?

