Sec 4-4: Percent Change

Amount of change = Final amt - Orig amt

$$\text{Percent Change} = \frac{\text{Amount of change}}{\text{Original Amount}} \times 100$$

Or

$$\frac{\text{Percent Change}}{100} = \frac{\text{Amount of change}}{\text{Original Amount}}$$

1. The price of a car was $12,500. There was a 12% decrease in the price. Find the new price.

$\frac{12}{100} = \frac{x}{12500}$ $x = 1500 \rightarrow 12{,}500 - 1500 = 11{,}000$

OR $(.88)(12{,}500) = 11{,}000$

2. The number of students at a school was 1400. The next year there was a 1.5% increase in the number of students. How many students were there the next year?

$(.015)(1400) = 21$

$1400 + 21 = 1421$

$100 + 1.5 = 101.5\%$

$(1.015)(1400) = 1421$