## Answer on Question #79123 – Math – Financial Math

## Question

A local Dunkin' Donuts shop reported that its sales have increased exactly 14% per year for the last 2 years. This year's sales were \$81,413. What were Dunkin' Donuts' sales 2 years ago? (Round each year's sales to the nearest dollar.)

## **Solution**

Dunkin' Donuts shop sales rise according to the following equation:

$$S = S_0 (1+p)^y,$$

where  $S_0$  is initial sales, p is grows rate (14% in our case), y is number of years passed.

Since S =\$81,413, y = 2 and p = 0.14, we obtain

$$S_0 = \frac{S}{(1+p)^y} = \frac{\$81,413}{1.14^2} = \$62,645$$

Answer: \$62,645.

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