Daniel wanted to buy some expensive perfume for his aunt. He went to a French perfume store and decided to buy some perfume in a beautiful bottle. The bottle of perfume was priced at $450. When the store owner handed Daniel the wrapped bottle of perfume he asked if Daniel would be willing to do him a favor. He wanted to know if Daniel could bring the empty bottle back so the owner could put it on display in his window since it was so beautiful. The owner said that the perfume cost $400 more than the empty bottle, so he would be willing to pay Daniel the difference. How much money will Daniel receive for the empty bottle when it is returned to the store owner? Don’t worry about any taxes.

Make sure you include the answer and an explanation as to how you determined the correct response. To receive credit, you must explain what you did and why you did it. Include any formulas that were used to help solve the problem. **Good Luck and enjoy the challenge! Did you know that J.E. Lundstrom invented the modern safety match in Sweden in 1855?** The match works since one of the chemicals needed to start the fire is located in the striking surface.

**Have fun – Dr. Fraccaro**