## Challenge #4

Maryam Mirzakhani, a professor at Stanford University filled up the gas tank on her Prius in Venice Beach, California at a price of \$3.85/gal. On the same day, Maria Agnesi filled the tank on her Fiat in Venice, Italy at a price of 1.72 Euro/Liter (1.72  $\in \ell$ ).

Assume the exchange rate at the time is \$1.30/€

The gas in Venice, Italy is \_\_\_\_\_ times as expensive as the gas in Venice Beach California.

## Challenge #4 Solution

Maryam Mirzakhani, a professor at Stanford University filled up the gas tank on her Prius in Venice Beach, California at a price of \$3.85/gal. On the same day, Maria Agnesi filled the tank on her Fiat in Venice, Italy at a price of 1.72 Euro/Liter (1.72  $\in$ /L).

Assume the exchange rate at the time is \$1.30/€

The gas in Venice, Italy is <u>2.2</u> times as expensive as the gas in Venice Beach California.

Italy:  

$$\frac{1.72 \times (\frac{\$1.30}{1 \times (\frac{9.94141}{1 \times (\frac{9}{1 \times (1 \times (\frac{9}{1 \times (\frac{9}{1 \times (\frac$$

America: \$3.85/gal