**Exchange Rates**

When you travel to other countries, you are often required to convert your money from US dollars into another type of currency in order to purchase items. Suppose you have decided to take a trip to France for the coming holiday. The unit of currency that France uses is the Euro.

1. Look up the current exchange rate for dollars to Euros. One place to find out is <http://finance.yahoo.com/currency-converter/>. Your teacher may supply this information to you.
2. You travel to France with $400 (US) in spending money. Write an expression that represents how many Euros, ***E***, are equivalent to $400 (US).
3. Use the expression to find how many Euros are equivalent to $400 (US).
4. Write an equation to describe how many Euros, ***E***, are equivalent to ***x*** dollars (US).
5. Using function notation, write a function to describe how many Euros, ***E***, are equivalent to ***x*** dollars (US).
6. A popular show in France costs 180 Euros. How many US dollars is this? Use your function to answer this question.
7. While on vacation, you spent all of your money but wanted to stay for another week. You have $1500 (US) saved in your bank account back home. You estimate that it will cost 680 Euros for a hotel and about 100 Euros per day for food and other expenses. If your parents wire you the money, will you have enough to stay for the extra week? Show work to support your answer.
8. Using function notation, write a function to describe how many US dollars, ***D*,** are equivalent to ***x*** Euros.