NAME: _____

Chapter 7 review **To discuss in class on Tuesday, October 28, 2008**
Math 111 Sec FC01

The Organization of American States (OAS) has 35 member nations, 13 of them island nations and 22 of them continental. Of the island nations, 2 of them have Spanish as an official language, and 10 of them have English as an official language. Of the continental nations, 16 have Spanish as an official language, and 4 of them have English as an official language.

1. Draw a tree diagram or a probability table which represents this data.
2. A student at a model OAS session selects a nation at random to represent.
   (a) What is the probability that the nation she selects:
      - is an island nation?
      - has English as an official language?
      - has Spanish as an official language?

   (b) Suppose she selects a nation with Spanish as an official language. What is the probability:
      - that she selected an island nation?
      - that she selected a continental nation?
3. Let E be the event that she chooses an island nation, and F be the event that she chooses a nation with English as an official language. Are the events E and F independent?