

BUS 735: Business Decision Making and Research

Instructor: Dr. James Murray

Homework: Introductory Statistics

Fall 2011

Due: Wednesday, October 26, 2011

The following questions use the dataset `eurointernet.sav` on the class website. This is annual data for 32 European countries on the percentage of individuals in the population that have used the internet to purchase items for personal usage within the last three months.

1. The last column is a dummy variable for whether each country was one of the original members of OECD (Organization for Economic Cooperation and Development), originally signed on December 14, 1960 (most European countries have since joined). Test whether or not original OECD European countries have a higher average internet commerce usage in 2010 than European countries who did not originally join.
2. Plot a histogram of your sample (yes I know I didn't teach this to you). Does the histogram provide evidence that the population probability distribution is skewed? In which direction?
3. Test whether or not the average internet commerce usage among European countries in 2010 is less than 25%.
4. Test whether or not the average internet commerce usage increased in European countries from 2006 to 2010.