Lab 3 (Chapter 4) GEOG 171/172 Spring, 2008 Due: Wednesday, March 5

THEMATIC MAPS AND DATA CLASSIFICATION

- 1. (5 points each) Do questions 1-2, 4-8, and 10 in the book on p. 172. When it says to "capture" a map, this means export it to PDF without worrying about the legend, title, etc.. If it says to "capture" a map and a legend, export a *complete* and finished map to PDF or JPG. If it just says to "capture" a legend, don't worry about it. Name your exported files in the style of "question1.pdf" (or. jpg).
- 2. (30 points) Do the challenge problem on p. 173. Do not print the map, but rather export it and name it "challenge_problem.pdf" or "challenge_problem.jpg".
- 3. (50 points) With the data set below, perform the following tasks
 - a. Make four identical histograms using bins of width 5 (bin widths are the groups that appear at the bottom of the histogram)
 - b. On each histogram, perform the following classifications with four classes
 - i. equal interval
 - ii. defined interval (you choose the interval)
 - iii. quantile
 - iv.natural breaks
 - c. Which of the above do you think best represents the data? Why? Please be as detailed as possible.
 - d. For +3 points extra credit, guess what the numerical attribute is.

Turn in your digital work via e-mail in the normal fashion. Question 3 should be done on paper (either manually or in Excel) and turned in at the beginning of class next Wednesday.

STATE	MYSTERIOUS_ATTR
Washington	11
Montana	3
North Dakota	3
South Dakota	3
Wyoming	3
Idaho	4
Oregon	7
Nebraska	5
Nevada	5
Utah	5
California	55
Colorado	9
Kansas	6
Arizona	10
Oklahoma	7
Texas	34
New Mexico	5