

PMgt 630, Statistical Analysis

HW # 3

Fall 2008

Note: Please turn in electronically (reese@stat.byu.edu) by 7:30pm on 1 October.

Complete The Following Problems:

Questions

Using the Community Indicators Dataset answer the following questions:

1. Construct a histogram and describe the histogram in terms of the center, shape, and spread for the following variables:
 - (a) Population
 - (b) Percent Caucasian
 - (c) % Bachelor's Degree or Higher
 - (d) Total Number of Violent Crimes
2. Construct a scatterplot of each of the following pairs of variables and describe the scatterplot in terms of form, direction, and strength.
 - (a) X =Population, Y =Total Number of Violent Crimes
 - (b) X =# of performing arts companies, Y =Unemployment Rate
 - (c) X =Income, Y =Juvenile Crime
 - (d) X =Public Transportation, Y =Travel Time to Work
3. Calculate the correlation coefficient for the pairs of variables in the previous question. Interpret the answer in context of the problem.

Chapter 8

Data-Based Exercises: #5