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