2.95

The owner of a restaurant serving Continental-style entrées has the business objective of learning more about the patterns of patron demand during the Friday-to-Sunday weekend time period. Data were collected from 630 customers on the type of entree ordered and organized in the following table:

Type of Entrée Number Served

Beef 1 87

Chicken 103 ~

Mixed 30

Duck 25

Fish 122

Pasta 63

Shellfish 74

Veal ' 26

Total 630

a. Construct a percentage summary table for the types of entrées ordered.

b. Construct a bar chart, a pie chart, and a Pareto chart for the types of entrées ordered.

c. Do you prefer using a Pareto chart or a pie chart for these data? Why?

d. What conclusions can the restaurant owner reach concerning demand for different types of entrées?

2.101

Source: www.bankrate.com

The file “cigarette tax” contains the state cigarette tax, in dollars, for each state as of April 1, 2009

1. Develop an ordered array
2. Plot a percentage histogram.
3. What conclusions can you reach about the differences in the state Cigarette tax between the states?

2.103

The file “compensation” includes the total compensation (in $) of CEOs of large public companies in 2008.

Source: Data extracted from D. Jones and B. Hansen, "CEO Pay Dives in a Rough 2008," [www.usatoday.com](http://www.usatoday.com), May 1, 2009.

a. Construct a frequency distribution and a percentage distribution.

b. Construct a histogram and a percentage polygon.

c. Construct a cumulative percentage distribution and plot a cumulative percentage polygon (ogive).

d. Based on (a) through (c), what conclusions can you reach concerning CEO compensation in 2008?

2.107

The file “gas prices” contains the weekly average price of gasoline in the United States from January 1, 2007, to January 12, 2009. Prices are in dollars per gallon.

Source: US Department of Energy: [www.eia.doe.gov](http://www.eia.doe.gov). January 14, 2009

a. Construct a time-series plot.

b. What pattern, if any, is present in the data?