| ~ . | | | |
|-----|------|-----|----------|
| Sta | 1116 | 777 | \sim c |
| DIC | | フレル | -c |

2.1-2.2 Review

| N | ame: | |
|---|------|--|
| | | |

Section 2-1: Frequency Distributions and Their Graphs

- *Construct a frequency distribution including limits, midpoints, relative frequencies, cumulative frequencies and boundaries.
- *Answer questions about a frequency distribution or its graph.
- *Construct a frequency histogram, frequency polygon, relative frequency histogram, or ogive from a given data set or frequency distribution.
- *Answer questions about a graph.

Use the table below to answer questions 1 -9.

| Daily Low | Frequency | Midpoints | Relative | Cumulative | Class |
|------------------|-----------|-----------|-----------|------------|------------|
| Temperature (F°) | • | _ | Frequency | Frequency | Boundaries |
| 35-39 | 1. | | | | |
| 40-44 | 3 | | | | |
| 45-49 | 5 | | | | |
| 50-54 | 11 | | | | |
| 55-59 | 7 | | | | |
| 60-64 | 7 | | | | |
| 65-69 | 1 | | | | |

- 1. Identify the class width.
- 2. Complete the remaining columns.
- 3. Create a frequency histogram. Identify the class with the least and greatest frequency.
- 4. Create a relative frequency histogram.
- 5. Create a frequency polygon.
- 6. Create an ogive. Which class has the largest increase in frequency?
- 7. What percent of the days had a low temperature of 50° or higher?
- 8. What did you do to answer #6?
- 9. How many days had low temperatures in the 40's?
- 10. What did you do to answer #8?

^{*}Be able to explain advantages/disadvantages when using the above graphical displays (ex: why choose stem-and-leaf plot over histogram).

Use the stem-and-leaf plot below for questions 11-13.

Key
$$1|7 = 1.7$$

- 11. What is the minimum and maximum value in the stem-and-leaf plot?
- 12. Write the data set represented by the stem-and-leaf plot.
- 13. Create a dot plot using the data in the stem-and-leaf plot.

Use the data below to answer questions 14 - 16.

The table below shows the responses of a poll of adults on June 16, 2006 about whether America should keep the penny.

| Response | # of people |
|----------|-------------|
| Yes | 58 |
| No | 148 |
| Not Sure | 44 |

- 14. What percent said "yes" to keeping the penny?
- 15 Create a pie chart using the data above.
- 16 Create a Pareto chart using the responses above.

17 Use a time series chart to display the data below.

Number of Collision Between Wildlife and Aircraft

| <u>Year</u> | <u>Collisions</u> |
|-------------|-------------------|
| 1990 | 1285 |
| 1992 | 1383 |
| 1994 | 2775 |
| 1996 | 6323 |
| 1998 | 5204 |
| 2000 | 4091 |
| 2002 | 5622 |
| 2004 | 4990 |
| 2006 | 5457 |