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1.4(__/3) A data set consists of ages at death of all the dead presidents of the U.S..

- (a) W.r.t. dead U.S. presidents, is this a sample or population?
- (b) What is the variable being measured?
- (c) Is the variable quantitative or qualitative?

1.6(__/3) A researcher wants to estimate the survival time of a patient after the onset of a particular type of cancer and after a particular regimen of radiotherapy.

- (a) What is the variable of interest to the researcher?
- (b) Is the variable qualitative, quantitative discrete, or quantitative continuous?
- (c) Identify the population of interest to the researcher.
Hint: it is not the set of patients: statistical populations are not sets of people.

1.8(__/4) Fifty people are grouped into four categories - A, B, C, D. The number of people who fall into each category is:
A - 11, B - 14, C - 20, D - 5.

- (a) What are the experimental units? Hint: they are not A, B, C, D.
- (b) What is the variable being measured?
- (c) Construct a pie chart for the data.

- (d) Construct a bar chart for the data.

1.12(__/3) The 1960s generation was never as radical as it was portrayed. A group of 30 to 40 year olds rated the 1960s political affiliations as follows:
Conservative: 28%, Moderate: 35%, Liberal: 31%, Radical: 6%.

- (a) Define the variable being measured.
- (b) Is the variable qualitative or quantitative?
- (d) Define the sample and the population of interest to the researchers.

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1.16(__/2) Consider the data:

4.5 3.2 3.5 3.9 3.5 3.9
4.3 4.8 3.6 3.3 4.3 4.2
3.9 3.7 4.3 4.4 3.4 4.2
4.4 4.0 3.6 3.5 3.9 4.0

- (a) Construct a stem and leaf plot with the leading digit as stem.

- (b) Construct a stem and leaf plot using each leading digit twice (See figure 1.10). Hint: split [3, 4] into [3.0, 3.5), [3.5, 4).

1.18(__/2) Consider the data:

1 2 1 0 2 2 1 1 0 0
2 2 1 1 0 0 1 2 1 1

- (a) Draw a dot plot for this data.

- (b) Draw a stem and leaf plot. Hint: rewrite 2 as 2.0

1.20(__/2) A realtor sells the following number of houses:
61 in year 1, 62 in year 2, 60 in year 3, 59 in year 4, 58 in year 5

- (a) Draw a line chart for the data. Start chart at 55 rather than 0.