

## Organizing and Visualizing data

1. Which of the following is not true?

- Frequency distributions and contingency tables are both used to organize numerical data
- A frequency distribution sorts numerical data into categories so it's easy to summarize.
- Contingency tables can display frequencies or percentages of the rows/columns/total.
- It is not possible to select both the number of classes and the class width in a frequency distribution.

2. Which statement is true?

- It is not possible to plot more than one frequency polygon in a single graph as the figures will overlap.
- Even though bar charts cannot display two categorical variables at once, pie charts can.
- For a variable  $x$  whose values are all below 100, a stem and leaf plot will have the same shape as a histogram where the classes are defined as  $0 < x \leq 10, 10 < x \leq 20, 20 < x \leq 30$ , etc.
- The only difference between a bar chart and a histogram is that histograms don't have gaps between the bars.