

# Practice

## 1.1 Analyzing Categorical Data

### Part 1 – Bar Graphs & Pie Charts

10. Spam Email spam is the curse of the Internet. Here is a compilation of the most common types of spam:<sup>9</sup>

Type of spam	Percent
Adult	19
Financial	20
Health	7
Internet	7
Leisure	6
Products	25
Scams	9
Other	??

- (a) What percent of spam would fall in the "Other" category?
- (b) Display these data in a bar graph. Be sure to label your axes and title your graph.
- (c) Would it be appropriate to make a pie chart of these data? Explain.

12. **Deaths among young people** Among persons aged 15 to 24 years in the United States, the leading causes of death and number of deaths in a recent year were as follows: accidents, 15,567; homicide, 5359; suicide, 4139; cancer, 1717; heart disease, 1067; congenital defects, 483.<sup>11</sup>

- Make a bar graph to display these data.
- To make a pie chart, you need one additional piece of information. What is it?

17. **Going to school** Students in a high school statistics class were given data about the primary method of transportation to school for a group of 30 students. They produced the pictograph shown.



- How is this graph misleading?
- Make a new graph that isn't misleading.