

Lab Assignment 2.1, 2.2

Name: _____ Date: _____ Row: _____

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1. The miles per gallon rating for 30 cars are shown below (lowest to highest). Create a stem plot using the data and identify any outliers: 19, 19, 19, 20, 21, 21, 25, 25, 25, 26,

26, 28, 29, 31, 31, 32, 32, 33, 34, 35, 36, 37, 37, 38, 38, 38, 38, 41, 43, 43.

2. The following data show the distances (in miles) from the homes of off-campus statistics students to the college. Create a stem plot using the data and identify any outliers: 0.5; 0.7; 1.1; 1.2; 1.2; 1.3; 1.3; 1.5; 1.5; 1.7; 1.7; 1.8; 1.9; 2.0; 2.2; 2.5; 2.6; 2.8; 2.8; 2.8; 3.5; 3.8; 4.4; 4.8; 4.9; 5.2; 5.5; 5.7; 5.8; 8.0.

The students in Ms. Ramirez's math class have birthdays in each of the four seasons. The table shows the four seasons, the number of students who have birthdays in each season, and the percentage (%) of students in each group.

Seasons	Number of students	Proportion of Population
Spring	8	24%
Summer	9	26%
Autumn	11	32%
Winter	6	18%

3. Construct a bar graph showing the number of students.

4. Using the data from Mrs. Ramirez's math class, construct a bar graph showing the percentages.

The following data are the shoe sizes of 50 male students. The sizes are continuous data since shoe size is measured. 9; 9; 9.5; 9.5; 10; 10; 10; 10; 10; 10; 10.5; 10.5; 10.5; 10.5; 10.5; 10.5; 10.5; 10.5; 11; 11; 11; 11; 11; 11; 11; 11; 11; 11; 11; 11; 11.5; 11.5; 11.5; 11.5; 11.5; 12; 12; 12; 12; 12; 12; 12; 12; 12.5; 12.5; 12.5; 12.5; 14.

5. Using this data, create a frequency table. Beginning with a lower class limit of 8.5 and a class width of 1. Also include the relative frequency.

Shoe Size	Frequency	Relative Frequency

6. Construct a histogram and using class midpoint or class boundaries and frequency.

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