Name:	MAT 121
Summer 2018	Homework 2

Problem 1: Construct a frequency distribution, relative frequency distribution, and cumulative frequency distribution table for the following data using 5 classes: Also, sketch a histogram for the

frequency distribution of the data. Describe the distribution.

Problem 2: Construct a leaf-and-stem plot of the following data:

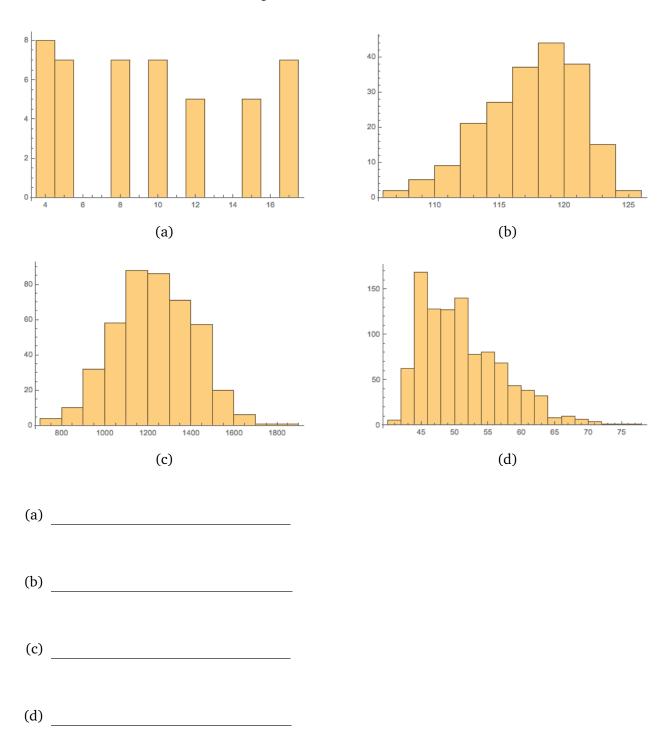
 $1.1, \quad 2.5, \quad 3.6, \quad 3.2, \quad 7.1, \quad 2.5, \quad 2.1, \quad 4.7, \quad 5.0, \quad 5.1$

Problem 3: The following table is a count of voters in a local election, broken down by sex and party affiliation.

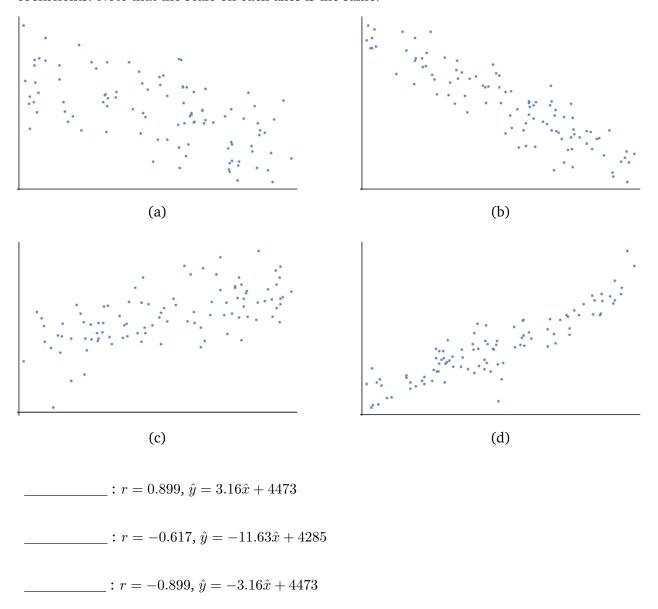
	Federalist Party	Whig Party	Free Soil Party
Male	134	265	47
Female	323	121	34

- (a) How many total men voted?
- (b) How many total Whig Party members voted?
- (c) How many men or Free Soil Party members voted?
- (d) What percent of Federalist Party voters in this election were female?

Problem 4: Determine if the following distributions are symmetric or skewed. If it is skewed, indicate whether the distribution is right skewed or left skewed.

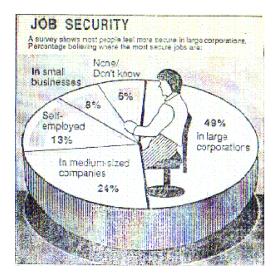


Problem 5: Match each of the following scatterplots with its regression equation and correlation coefficients. Note that the scale on each axes is the same.



 $r = 0.617, \hat{y} = 11.63\hat{x} + 4285$

Problem 6: Identify problems in the presentation of data in the following chart. Identify how you might correct the figure.



Problem 7: Identify problems in the presentation of data in the following chart. Identify how you might correct the figure.



Problem 8: Identify problems in the presentation of data in the following chart. Identify how you might correct the figure.

