Week 3. STAT1020 Discussion section – Issac Lee

1. Calculation of Statistics.

9, 1, 3, 2, 5, 4, 6, 7, 8

a. Mean
b. Median
c. IQR
d. Std.

2. Contingency table

30. Politics Students in an Intro Stats course were asked to describe their politics as "Liberal," "Moderate," or "Conservative." Here are the results:

		Politics			
		L	M	C	Total
Sex	Female	35	36	6	77
	Male	50	44	21	115
	Total	85	80	27	192

a) What percent of the class is male?
b) What percent of the class considers themselves to be "Conservative"?
c) What percent of the males in the class consider themselves to be "Conservative"?
d) What percent of all students in the class are males who consider themselves to be "Conservative"?

3. Conditional distribution

a. Find the conditional distributions of political views for the females and males.
b. Make graphical display that compares the two distributions. Do the variables politics and sex appear to be independent?

Do your self

29. Seniors Prior to graduation, a high school class was surveyed about its plans. The following table displays the results for white and minority students (the "Minority" group included African-American, Asian, Hispanic, and Native American students):

		Seniors	
		White	Minority
Plans	4-Year College	198	44
	2-Year College	36	6
	Military	4	1
	Employment	14	3
	Other	16	3

a) What percent of the seniors are white?
b) What percent of the seniors are planning to attend a 2-year college?
c) What percent of the seniors are white and planning to attend a 2-year college?
d) What percent of the white seniors are planning to attend a 2-year college?
e) What percent of the seniors planning to attend a 2-year college are white?

a. Find the conditional distributions of plans for the white and minority.
b. Make graphical display that compares the two distributions.