Tutorial 2

Week of January 21, 2019

Question 1.33, Page 34

Consider the following dataset of home sale amounts in 1000s of $:

590	815	575	608	350
1285	408	540	555	679

(a) Calculate and interpret the sample mean and median.

(b) Suppose the 6th observation had been 985 rather than 1285. How would the mean and median change?

(c) Calculate a 20% trimmed mean by first trimming the two smallest and two largest observations.

(d) Calculate a 15% trimmed mean.

Question 1.56, Page 46

Below is (sorted) data on distilled alcohol content (%) for a sample of 35 port wines.

15.30	16.20	16.35	17.15	17.48	17.73	17.75	17.85	18.00
18.68	18.82	18.85	19.03	19.07	19.08	19.17	19.20	19.20
19.33	19.37	19.45	19.48	19.50	19.58	19.60	19.62	19.90
19.97	20.00	20.05	21.22	22.25	22.75	23.25	23.78	

Calculate summary statistics and construct a boxplot.

$$n = 35, \quad \sum x_i = 674.01, \quad \sum x_i^2 = 13093.7689$$