Elementary Statistics: Solution to Homework 4

Solution

Page 311 Problem 5.1:

c) mean.

Page 311 Problem 5.4:

The solutions are on the bottom of page 307.

Page 311 Problem 5.6:

Since the distribution is skewed to the right (few people get a high salary where most people don't), the mean will present the higher *average* salary. The median and the mode will present the lower *average* salary.

a) If you want to argument that the salary is too low, you should use median or mode to represent your average salary.

b) On the other hand, if you want to argue that the salary is too high, you should use the mean.

Page 334 Problem 5.14:

a) F
b) F
c) T
d) F.

Page 334 Problem 5.15:

a) T
b) T
c) F
d) T
e) F.

Page 345 Problem 5.30:

a) Data set I) mean = 4.1, median = 6 and mode = 6.
Data set II) mean = 11.86, median = 8 and mode = 6 and 8.

b) The mean is a poor measure of center for the data set II) since there is a strong outlier which is 42.