King Fahd University of Petroleum & Minerals														
Department of Mathematics & Statistics														
STAT-319-Term181-18 /11/ 2018														
Quiz #5														
Name:	me:							ID:						Serial:
Q 1: A survey was instituted to estimate the mean salary of middle level bank executive. A random sample of														
15 executive yielded the following yearly salaries (in units of \$1000)														
88	121	77	39	52	102	95	78	69	82	80	84	72	115	106

a) Calculate and interpret a 95% confidence interval for the mean salary of middle level bank executive.

b) Test the hypothesis that the mean salary of middle level bank executive is more than 80.

Q2: A fuel company claims that one-fifth of the homes in a certain city are heated by oil. In a random sample of 1000 homes in this city, it is found that 136 are heated by oil? Do we have reason to believe that proportion of homes heated by oil is less than one-fifth?