

King Fahd University of Petroleum & Minerals
Department of Mathematics & Statistics
 STAT-201-Term181
 Quiz #3-18/11/2018

Name:

ID:

Serial:

Q1:

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

Do you think that the mean salary of middle level bank executive is more than 80 (\$1000)?

Q2: Forty workers were randomly divided into two sets of 20 each. Each set spent two weeks in a self - training program that was designed to teach a new production technique. The first set of workers was accompanied by a supervisor whose only job was to check that the workers were all paying attention. The second group was left on its own. After the program ended, the workers were tested. The following results were as follows:

	Sample Mean	Sample St. Dev.
Supervised group	70.6	8.4
Unsupervised group	77.4	7.4

Does the data provide evidence for concluding that supervision had no effect on the performance of the workers? Test the appropriate hypotheses using 1% level of significance. What would you conclude was the result of the supervision?