

King Fahd University of Petroleum & Minerals
Department of Mathematics & Statistics
STAT-211-Term111-I
Quiz #3

Name:

ID:

Serial:

Q1. A random sample of companies has been selected from Saudi Arabia. The following are numbers of engineers that work in these companies:

0	2	3	4	5	6	7	7	8	8
8	10	10	12	12	13	13	16	18	

Then for this data, find:

1. Mode
2. Mean
3. Standard deviation
4. The percentage of the data that lie within one standard deviation of the mean
5. Based on your answer in part (4), do the data satisfy the empirical rule? Why?
6. Are there any outliers? Use the Z-score.
7. Sketch the box plot. Comment on the shape.