

King Fahd University of Petroleum & Minerals
Department of Mathematics & Statistics
STAT-211-Term112
Quiz #2

Name: _____ ID: _____ Section: _____ Serial: _____

The following data represented the temperatures for selected cities in Saudi Arabia for the month of May:

9 24 27 29 32 34 37 38 38 39
40 41 43 43 43 44 44 45 47

1. Construct a stem-and-leaf plot of the temperature data and comment on the shape of the data distribution.
2. Find the mode, the median and the 75th percentile of temperature.
3. Find the mean and standard deviation of the temperature for the cities
4. Find $\bar{x} \pm s$. Is the second part of the empirical rule satisfied for this data? Explain
5. Is the temperature 9 an outlier? Explain

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The following data represent the annual income (in thousands of SR) of a simple random sample of 21 accountants in Saudi Arabia:

101 104 112 121 121 117 125 132 137 139 141
149 135 144 145 145 148 151 154 157 161

1. Construct a stem-and-leaf plot of the annual income data and comment on the shape of the data distribution.
2. Find the mode, the median and the 65th percentile of annual income.
3. Find the mean and standard deviation of the annual income
4. Find $\bar{x} \pm 2s$. Is the second part of the empirical rule satisfied for this data? Explain
5. Is the 161 SR an outlier? Explain

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The following data represented the temperatures for selected cities in Saudi Arabia for the month of May:

9 24 27 29 32 34 36 37 38 39
40 41 43 43 44 44 44 45 47

1. Construct a stem-and-leaf plot of the temperature data and comment on the shape of the data distribution.
2. Find the mode, the median and the 85th percentile of temperature.
3. Find the mean and standard deviation of the temperature for the cities
4. Find $\bar{x} \pm 3s$. Is the second part of the empirical rule satisfied for this data? Explain
5. Is the temperature 9 an outlier? Explain