

- 1) Given the following data set: 61, 64, 61, 66, 57, 71, 51, 74, 77, 74, 79, 84, 85. Construct the stem-and-leaf plot

- 2) In a survey, 26 voters were asked their age. The results are shown. Construct a histogram to represent the data. Use 5 classes. (Note: be sure to indicate all information necessary including labels for the axes)
43 56 28 63 67 66 52 48 37 51 40 60 62
66 45 21 35 49 32 53 61 53 69 31 48 59

- 3) The weights (in ounces) of 14 different apples are shown below
6.3 5.1 5.0 6.9 6.2 6.3 5.1 6.0 4.4 6.9 6.3 6.0 6.9 4.3
Find the mean, median, and the mode

- 4) Find the midrange, median and range for the given sample data
49 52 52 52 76 68 56 56

- 5) Christine is currently taking college astronomy. The instructor often gives quizzes. On the past eight quizzes, Christine got the following scores :
49 52 52 52 74 67 55 55
Compute the standard deviation s

- 6) Use the given sample data to find Q_1 , Q_3
15 15 24 27 32 40 42 44 55 73

- 7) Explain the meaning of discrete quantitative data

- 8) Suppose we have the following set of data:
2 4 1 2 4 3 3
2 2 1 2 4 2 3
Compute the mean and the median. Decide which of the two measures of center is best

- 9) Given the following data set:
13 16 18 21 22 23
28 29 30 30 31 35
38 38 44 51
Determine the IQR
Obtain a five-number summary (no need to graph the box-plot)
Identify potential outliers, if any
- 10) Define stratified sampling

- 11) A positive z-score indicates that the observation is _____ the mean

- 12) The mean height of women is $\mu = 63.6$ in. with a standard deviation, $\sigma = 2.5$ in. If Kelly is 61.8 in tall, obtain the z-score for Kelly's height. Interpret your answer.