AP Statistics

2019-01-16 1.3 Assignment

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Pg. 70-74 79,81,87,89,91,95,97,107-110
Question 79
  mean = (86+84+91+75+78+80+74+87+76+96+82+90+98+93)/14 = 85
  The mean shows the even distribution of the sum of all scores across each
  student.
Ouestion 81
  Part A
    Median = 85
  Part B
    Mean = 79.3
    Median = 84
    Resistance
Question 87
  Part A
    Median = 7 from approximating the height of each bar
    Mean = 9 - the distribution is significantly skewed right
  Part B
    Median as it is less resistant to outliers and the right skew
Ouestion 89
  Part A
    IQR = Q[3] - Q[1] = 91 - 78 = 13
  Part B
    Outlier bounds:
      Min: 78-13*1.5 = 58.5
      Max: 91+13*1.5 = 110.5
    No outliers
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Question 91

Part A

See "2019-01-16 1.3 Assignment - Image 1.png"

Part B

No. There are approximately 30 days in a month. The median number of messages sent/received from the class was 9, which results in 270/month, much less than the 1742 messages stated in the article.

Question 95

Part A

3.0, -3.5

Part B

0.0

Part C

The stocks have a much larger distribution.

Question 97

Part A

stddev = 0.6419

Part B

The levels of mg of phosphate vary 0.6419 about the mean of the sample.

Question 107: D

Ouestion 108: B

Question 109: A

Question 110: E