

AP STAT- Ch. 4 and Ch. 5 practice

1) Use the following data: {5, 7, 8, 10, 12, 15, 17, 20, 30, 31, 22, 25, 28, 33, 34, 35, 39, 40} (list Ques1)

- Find the Mean, Median, Range, IQR, and Standard deviation.
- Create a boxplot of the data
- Suppose we add the data point 62 to this set of data. Indicate how each of the statistics in part (a) would change: increase, decrease, or stay about the same.

2) The following are quiz scores from two Algebra 1 Classes.

Class 1: {68, 93, 53, 100, 77, 86, 91, 88, 72, 74, 66, 82} and Class 2: {77, 91, 82, 68, 75, 72, 85, 65, 70, 79, 94, 86}

- Compare the means of the class scores. Which would you rather be in?
 - Compare the standard deviations. Which class was more consistent in their scores?
- 3) Based solely on the mean and median given, decide on the shape of the distribution, and what measure of center and spread you would report.

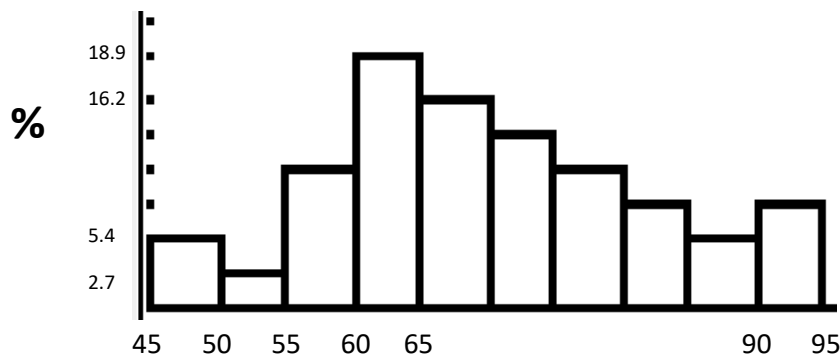
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|-------------------------------|------------------------------|--------------------------------|
| (a) Mean = 100
Median = 98 | (b) Mean = 20
Median = 41 | (c) Mean = 934
Median = 850 |
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4) Use the following set of data:

{3, 4, 4, 4, 5, 6, 6, 7, 8, 10, 11, 11, 16, 17, 20, 25, 28, 30, 31, 39, 45, 59, 68, 73} (list Ques4)

- Look at (not draw) a histogram of the data (just use Zoom 9, no need to adjust the window).
 - Describe the distribution (be sure to use the correct measure of center and spread)
 - Are there any outliers present? Justify your answer.
- 5) Give a set of numbers that would have a standard deviation of 0

6) The Presidents of the USA and their Age of Death (list PRES). Look at the Relative Frequency Histogram and describe the distribution.



Presidents Ages of Death

Description: