

Unit 6 Warm Up Quiz Review

1. Below is a table listing 10 scores of students who took the Unit 5 test.

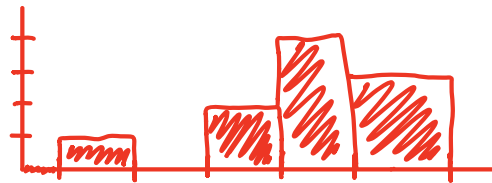
94	71	54	89	81	84	81	90	91	76
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a. Find the mean, median, mode and range of the data. Then calculate the standard deviation and variance.

Mean: 81.1 Range: 40
 Median: 82.5 Variance: 127.69
 Mode: 81 Stand. Dev: 11.3

b. Construct a frequency table and a histogram for this data. Use bins of 10 point intervals starting with 50-60. Describe the shape of the data.

50-60	1
60-70	0
70-80	2
80-90	4
90-100	3



Data is uni-modal
and skewed left

c. Using the ~~histogram~~ frequency table, calculate the mean, median and mode of the data.

frequency table

Mean: 83
 Median: 85
 Mode: 85

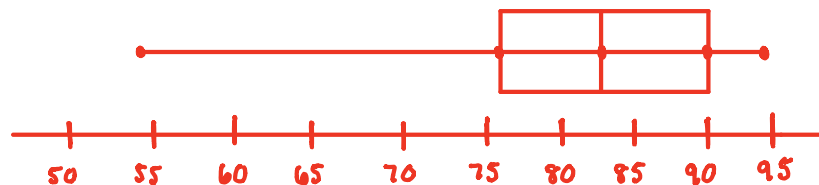
d. Create a stem-and-leaf plot for this data.

5	4
6	
7	1, 6
8	1, 1, 4, 9
9	0, 1, 4

Key: 7|1 = 71

e. Create a box and whisker plot for this data.

Min: 54
 Q1: 76
 Med: 82.5
 Q3: 90
 Max: 94



e. Which measure of central tendency would be best for this data and why?

IQR: 14 $90 + 14(1.5) = 111$ Median; 54 is an outlier
 $76 - 14(1.5) = 55$

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1. Below is a table listing 10 scores of students who took the Unit 5 test.

94	71	54	89	81	84	81	90	91	76
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a. Find the mean, median, mode and range of the data. Then calculate the standard deviation and variance.

b. Construct a frequency table and a histogram for this data. Use bins of 10 point intervals starting with 50-60. Describe the shape of the data.

c. Using the histogram, calculate the mean, median and mode of the data.

d. Create a stem-and-leaf plot for this data.

e. Create a box and whisker plot for this data.

e. Which measure of central tendency would be best for this data and why?

~~2. 100 students took the SAT and had a mean score of 1200 with a standard deviation of 75 points.~~

~~a. How many students scored between 1050 and 1200 on the SAT?~~

~~b. How many students scored within 1 standard deviation of the mean?~~