

MAT150.5 Statistics Test 1 Practice Exam

Updated on 2/20/18

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1. The table below shows ages at a 2018 New Year Party.

Age (years)	25	32	46	11	51	39	45	32	17	30
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- a. Create a stem and leaf plot of this data.
- b. What is the range of the data?
- c. What is the mean of the data?
- d. What is the median of these data?
- e. What is the mode of these data?

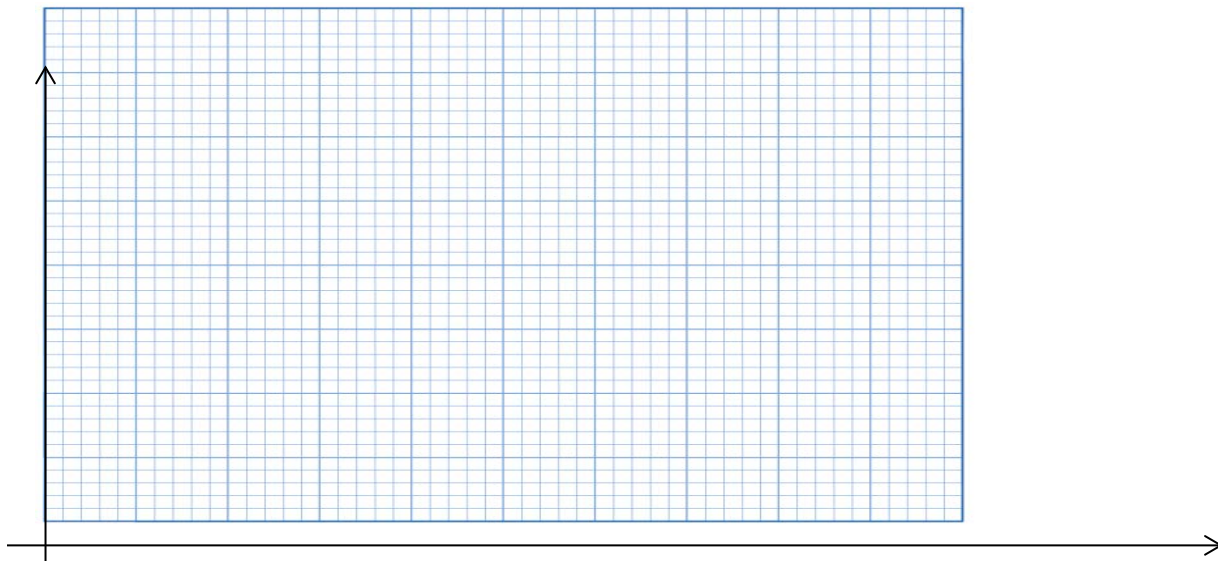
2. The following is average inches of rainfall for twenty cities in the US.

50, 35, 15, 64, 34, 38, 53 73, 20, 36, 19, 41, 21, 69, 15, 40, 39, 35, 65, 58

a. Use the data to create a Frequency Table to simplify the data.

Inches of Rainfall per Year				
Classes	Tally	Frequency	Midpoint	Cumulative Frequency
10 – 19				
20 – 29				
30 – 39				
40 – 49				
50 – 59				
60 – 69				
70 – 79				

b. Create a histogram for the data. Include all labels.



c. Use the frequency table to estimate the mean.

3. Calculate the mean, variance and standard deviation of 5 students exam scores from a statistics course with

88 74 92 87 75

x	$x - \bar{x}$	$(x - \bar{x})^2$

Mean _____

Variance _____

Standard Deviation _____

4. Given is a list of the 2017-2018 salaries of the players for the New York Knicks in millions of dollars.

4.1 16.5 0.3 17.2 13.4 1.4 0.5 2.5 6.0 11.2 1.6 0.9 6.2

a. Give the five-number summary of the New York Knicks' salaries.

b. Dose the data have any outliers? Justify why or why not.

c. Make a box-and-whiskers plot for New York Knicks' salaries.