GENERAL STATISTICS

1)	The is the number that occurs the often, but it might be a range of							
	values instead. This is called the interval.							
2)	The is the number in the middle of an ordered set.							
3)	Outlier calculations are important. The maximum outlier limit is calculated by the formula:							
	Q3 +, and the lower outlier limit by Outliers must be marked with							
	a on box and whisker plots. Label the values used to generate a box and whisker plot:							
4)	Variance is the to the power of							
5)	The mean score for a set of exams is 4.3. If you increase every score by 3, the mean is							
	If the standard deviation of the data is 1.2, and you increase every score by 3							
	the standard deviation is							
6)	The mean of data is 4.3. If you double every score, the mean is							
7)	Hypothesis testing. Remember: If the p-value is low, the null must							
T-TEST								
8)	A t-test is used to determine if there is a difference between the							
	which is represented with this symbol: There are two main assumptions that are							
	made: The first is that the data is and second is that							
	the Mathematically, the null							
	hypothesis must be written as: and the alternative as:,							
	or or You must read the question closely to determine which							
	to use. It is important you select the t-test on your calculator, as well as							
	the correct alternative hypothesis. You must also make sure you select at-							
	test. Just remember: are fun!							

PEARSON AND SPEARMAN

- Pearson's correlation can only be used for ______ relationships. If relationship is monotonic, which basically means ______, use ______ instead.
- 10) _____ is less sensitive to outliers than _____ is.
- 11) For Pearson's, the line of regression must pass through the ______

and the correct _____.

12) Make sure to use the correct equation of regression to make predictions. If you are

predicting for *y*, use this model: ______. If you are predicting for *x*, use this

model: ______. In order to generate the latter, you simply ______ the

_____ in your calculator.

13) Predictions made from values are reliable if they are inside the ______. This is called

______. It is also important for the ______ to be ______.

Predictions are less reliable if made from values outside the ______. This is called

______. Also, if the ______ is _____, the prediction would be less

reliable.

14) Carrying out Spearman's calculation is easy if you rank them correctly. Rank the following

for practice:

x (score)	15	5	10	10	6	12	12	14
Rank								
y (score)	17	4	12	9	7	13	12	15
Rank								