TEST 1 REVIEW

CHAPTER	CONCEPT	WHAT TO KNOW	
Chapter 1	Descriptive Statistics	Definition & Example	
	Inferential Statistics	Definition & Example	
	Population	Definition & Example	
	Sample	Definition & Example	
	Parameter	Definition & Example	Symbols for Parameters?
	Statistic	Definition & Example	Symbols for Statistics?
	Confidence Level	Definition & Example	
	Significance Level	Definition & Example	
	Discrete and Continuous Random Variables	Please note: it was discussed in class these terms, from lecture, would be on your TEST 1	
Chapter 2	Variable	Definition & Example	
	Interval Data	Definition, example, and what meaningful statistics operations can you find with Interval Data	
	Ordinal Data	Definition, example, and what meaningful statistics operations can you find with Ordinal Data	
	Nominal Data	Definition, example, and what meaningful statistics operations can you find with Nominal Data	
	Bar and Pie Charts	What kind of data can you display in these charts?	
	Relative Frequency	Definition and How To Find It	
	Qualitative Data	Definition and show example	

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	Quantitative Data	Definition and show example	
	Cross-Classification Tables	When would you use these tables and why?	
	Random Variable	Definition	
Chapter 3	Histogram	What type of data can form histogram? Can you tell when histograms are skewed and which direction?	
	Frequency Distribution*	Identify all parts of a frequency distribution*	
Chapter 3 (continued)	Class Width*	Definition and how to find it	
	Class Limits*	Definition; Upper and Lower Class Limits	
	Shapes of Histograms*	Can you recognize Symmetrical, Positive skewness, Negative Skewness?	
	Bins*	What are they? Why are they used?	
	Frequency* Sum of Frequencies	What is it? What is it? How to find	
	Sample Size*	Summation of frequencies	
	Relative Frequency*	Definition and How to find it	
	Cumulative Relative Frequency*	Definition and How to find it	
	Cumulative Frequency*	Definition and how to find it	

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	Ogive*	What is it? Can you interpret an ogive graph?	
	Graphical Deception	What types of deception and can you recognize when a graph is deceptive?	
Chapter 4	All Measures of Central Location	Definitions	
	All Measures of Variability	Definitions	
	All Measures of Relative Standing	Definitions; how many quartiles, how many percentiles;	
	Measures of Linear Relationship	What type of data is used with the least squares technique?	
	Least Squares Equation	Difference between Y hat and Y. How to determine the independent and dependent variables.	
Chapter 4 (continued)	Y intercept of Least Squares Equation	Define and interpret related to a problem	
	Coefficient of Correlation	Define and know the values of this coefficient of correlation	Know symbols
	Scatter Plots	Visually Distinguish between negative and	

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		positive correlations; weak and strong	
	Coefficient of Determination	Definition and interpretation; given the correlation coefficient, can you find the coefficient of determination?	
	Empirical Rule	Definition, When to Use, and determine areas under curve using the Empirical Rule	
	Box Plot*	Definition and Can you read a box plot?*	
	Quartiles*	Definition and also to Identify quartiles from a boxplot	
	Interquartile Range-IQR	Read and determine IQR from a boxplot	
	Mild Outliers	How to find	
	Skewness*	Visually Determine skewness of data from a boxplot	
Chapter 5	Collecting Data	What ways do we collect data?	
	Stratified Random Sample	Definition	
	Census	Definition	

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	Cluster Sample	What is it? How to collect data with a cluster sample? Can you identify when a sample has been selected using cluster random sampling?	
	Non Sampling Error	Definition and examples	