QUIZ #1 Based on Chapters 1, 2, and 3

Answer on a Scantron form.

Due at the beginning of class on Tuesday 02/02/2010

1.	The sc	ale of measurement for a variable is called an <i>ordinal scale</i> if	
	a.	the data exhibit the properties of nominal data and the order or rank of the data is	
		meaningful.	
	b.	the data exhibit the properties of interval data and the order or rank of the data is meaningful.	
	C	the data exhibit the properties of nominal data and the order or rank of the data is not	
	C.	meaningful.	
	d.	None of the above.	
2.	The data in which scale of measurement will always be numeric?		
		Nominal scale	
		Interval scale	
		Ratio scale	
	d.	Both b and c are correct	
3.	require numeric values that indicate how much or how many.		
	a.	Quantitative data	
	b.	Nominal data	
	c.	Ordinal data	
	d.	Qualitative data	
4.		is the set of all elements of interest in a particular study.	
	a.	Data set	
	b.	Population	
	c.	Sample	
	d.	Observation	
5.	According to your textbook, what is an important source for finding existing data?		
	a.	Special interest organizations	
	b.	The Internet	
	c.	Government agencies	
	d.	All of the above	

THE FOLLOWING PARAGRAPH IS TO ANSWER QUESTIONS 6,7 and 8

The *Wall Street Journal* (October 13, 2003) subscriber survey asked 46 questions about subscriber characteristics and interests. State whether questions 6-8 provide *qualitative or quantitative* data and indicate the *measurement scale* that is appropriate for each.

- 6. What is your age in years?
 - a. Quantitative; ratio
 - b. Qualitative; nominal
 - c. Quantitative; interval
 - d. Qualitative; ordinal
- 7. To indicate your gender, circle the appropriate number: Male= 1 Female= 2
 - a. Qualitative; ordinal

- b. Qualitative; nominalc. Quantitative; nominal
- d. Quantitative; interval
- 8. When did you first start reading *WSJ*? High school, college, early career, mid-career, late career, or retirement?
 - a. Quantitative; ratio
 - b. Qualitative; nominal
 - c. Quantitative; interval
 - d. Qualitative; ordinal
- 9. What is the relative frequency of a class equal to?
 - a. The proportion of items belonging to a class.
 - b. The fraction of items belonging to a class.
 - c. The percentage of items that do not belong to a class.
 - d. Both a and b are correct.
- 10. Which of the following equations will help determine the relative frequency of a class?
 - a. (Frequency of the class) /(n-1)
 - b. (Frequency of the class) /(n)
 - c. (n) /(Frequency of the class)
 - d. (n-1) /(Frequency of the class)
- 11. _____ is the value halfway between the lower and upper class limits.
 - a. Upper class limit
 - b. Class midpoint
 - c. Lower class limit
 - d. Average point
- 12. The total of the relative frequencies of all classes in a frequency distribution will always be equal to
 - a. 1.00
 - b. 100
 - c. less than 1
 - d. greater than 1
- 13. Which of the following statements is *true*?
 - a. Relative frequency distribution is a graphical method of showing data.
 - b. Both percent frequency distribution and cumulative percent frequency distribution are appropriate for qualitative data.
 - c. Cumulative distributions are appropriate for quantitative data only.
 - d. All of the above are true statements.
- 14. Which of the following is not a measure of location?
 - a. Median
 - b. Range
 - c. Mode
 - d. Mean

15. Which	of the following statements is <u>true</u> ?
a.	The median is not a measure of location.
b.	The median is the value in the middle when the data are arranged in ascending order.
c.	For an even number of observations, the median is the middle value.
d.	For an odd number of observations, the median is the average of the two middle
	values.
	of the following statements is <u>not true</u> ?
a.	The mode is the value that occurs with greatest frequency.
	The mode is an important measure of location for qualitative data.
	Mode is a measure of variability.
d.	All of the above are true statements.
17. The se	cond quartile, or 50 th percentile, is also the
	Mode of the data
	Mean of the data
	Median of the data
d.	Variance of the data
18. Each q	uartile contains approximately of the data.
a.	50%
b.	25%
c.	100%
d.	10%
19. For an	y data set, the sum of the deviations about the mean will always be
a.	equal to 1
b.	between 0 and 1
c.	less than 1
d.	equal to 0
20. Which	of the following measures of variability is the most popular?
a.	Range
b.	1 &
	Variance
d.	Standard Deviation
	WING IS TO ANSWER QUESTION 21 ores for six games were 182, 168, 184, 190, 170, and 174. Use these data as a sample.
21. Compt	ate the standard deviation.
-	7.92
b.	5.72
c.	8.67
d.	6.99