- 1. A numerical value used as a summary measure for a sample, such as sample mean, is known as a population parameter a. sample parameter b. c. sample statistic population mean d. None of the above answers is correct. e. ANSWER: 2. Since the population size is always larger than the sample size, then the sample statistic can never be larger than the population parameter can never be equal to the population parameter b.
 - c. can never be zero
 - d. can never be smaller than the population parameter
 - e. None of the above answers is correct.

ANSWER:

- 3. μ is an example of a
 - a. population parameter
 - b. sample statistic
 - c. population variance
 - d. mode
 - e. None of the above answers is correct.

ANSWER:

- 4. The mean of a sample is
 - a. always equal to the mean of the population
 - b. always smaller than the mean of the population
 - c. computed by summing the data values and dividing the sum by (n 1)
 - d. computed by summing all the data values and dividing the sum by the number of items
 - e. None of the above answers is correct.

ANSWER:

- 6. In a five number summary, which of the following is <u>not</u> used for data summarization?
 - a. the smallest value
 - b. the largest value
 - c. the median
 - d. the 25th percentile
 - e. the mean

ANSWER:

- 7. Since the mode is the most frequently occurring data value, it
 - a. can never be larger than the mean
 - b. is always larger than the median
 - c. is always larger than the mean
 - d. must have a value of at least two
 - None of the above answers is correct.

ANSWER:

- 12. The difference between the largest and the smallest data values is the
 - a. variance
 - b. interquartile range
 - c. range
 - d. coefficient of variation
 - e. None of the above answers is correct.

ANSWER:

13.	Which of the following is not a measure of central location?
15.	
	a. mean
	b. median
	c. variance
	d. mode
	e. None of the above answers is correct.
	ANSWER:
	ANOWEK.
14.	If a data set has an even number of observations, the median
1	in a data set has an even number of cesser various, the median
	a. can not be determined
	b. is the average value of the two middle items
	c. must be equal to the mean
	d. is the average value of the two middle items when all items are arranged in ascending order
	e. None of the above answers is correct.
	ANSWER:
15.	The sum of deviations of the individual data elements from their mean is
13.	The sum of deviations of the individual data elements from their mean is
	a. always greater than zero
	a. always greater trian 2010
	b. always less than zero
	c. sometimes greater than and sometimes less than zero, depending on the data elements
	d. always equal to zero
	e. None of the above answers is correct.
	ANSWER:
1.6	
16.	The value that has half of the observations above it and half the observations below it is called the
	a. range
	b. median
	c. mean
	d. mode
	e. None of the above answers is correct.
	ANSWER:
17	The second of the second secon
17.	The most frequently occurring value of a data set is called the
	a. range
	b. mode
	c. mean
	d. median
	e. None of the above answers is correct.
	ANSWER:
10	Learning of 900 students in a minusian 1/0 as 200/ our Parison maior. Parison at a few standards in the
18	In a sample of 800 students in a university, 160, or 20%, are Business majors. Based on the above information, the
	school's paper reported that "20% of all the students at the university are Business majors." This report is an example of
	a. a sample
	b. a population
	c. statistical inference
	d. descriptive statistics
	e. None of the above answers is correct.
	ANSWER:
10	A statistic work and add state to a decadaring of the first of the control of the
19	A statistics professor asked students in a class their ages. On the basis of this information, the professor states that the
	average age of all the students in the university is 21 years. This is an example of
	a. a census
	b. descriptive statistics
	c. an experiment
	d. statistical inference
	e. None of the above answers is correct.
	ANSWER:

 a. frequency distribution b. relative frequency distribution c. frequency d. cumulative frequency distribution e. None of the above answers is correct. ANSWER:
 b. relative frequency distribution c. frequency d. cumulative frequency distribution e. None of the above answers is correct.
d. cumulative frequency distribution e. None of the above answers is correct.
e. None of the above answers is correct.
The standard deviation of a sample of 100 observations equals 64. The variance of the sample equals
a. 8
b. 10 c. 6,400
d. 4,096
e. None of the above answers is correct.
ANSWER:
22. The variance of a sample of 81 observations equals 64. The standard deviation of the sample equals
a. 0 b. 4096
b. 4096 c. 8
d. 6,561
e. None of the above answers is correct.
ANSWER:
34. Which of the following is not a measure of dispersion?
a. the range
b. the 50th percentile c. the standard deviation
d. the interquartile range
e. the variance
ANSWER:
ANSWER: 35. If the variance of a data set is correctly computed with the formula using n - 1 in the denominator, which of the following is true?
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- 38. When should measures of location and dispersion be computed from grouped data rather than from individual data values?
 - as much as possible since computations are easier
 - only when individual data values are unavailable b.
 - when the data are from a population c.
 - d.
 - None of the above answers is correct. e.

ANSWER:

- 39. The descriptive measure of dispersion that is based on the concept of a deviation about the mean is
 - the range
 - the interquartile range both a and b b.
 - c.
 - d. the standard deviation
 - None of the above answers is correct.

ANSWER: