

COMM 215 2013/4 H

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Quiz navigation



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Started on Saturday, 18 January 2014, 5:35 PM

State Finished

Completed on Saturday, 18 January 2014, 6:37 PM

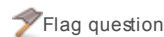
Time taken 1 hour 1 min

Grade 17.00 out of a maximum of 20.00 (85%)

Question 1

Correct

Mark 1.00 out of 1.00



Which of the following definitions best describes the subject of statistics?

Select one:

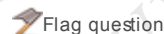
- a. Statistics are numbers in the number system.
- b. Statistics is the art and science of gathering, summarizing, analyzing, presenting measurements made on observations for a data set. ✓
- c. Statistics is the central focus of the mathematical sciences.
- d. Statistics is a strict science, a course that I must take.
- e. Statistics are fun

The correct answer is: Statistics is the art and science of gathering, summarizing, analyzing, presenting measurements made on observations for a data set.

Question 2

Correct

Mark 1.00 out of 1.00



The players in the Montreal Canadiens can be identified by numbers assigned to them by the management. These numbers are attached to their jerseys. Which of the following best describes the statistical term for these numbers?

Select one:

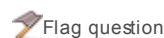
- a. Indicators of the order of importance of the player
- b. Numeric measures
- c. The number identifying the position of players on the team
- d. Nominal scale measures ✓
- e. The equivalent of quantitative variables

The correct answer is: Nominal scale measures

Question 3

Correct

Mark 1.00 out of 1.00



The measures used to record temperatures are called

Select one:

- a. Nominal scale measures
- b. Ordinal scale measures
- c. Ratio scale measures
- d. Interval scale measures

The correct answer is: Ratio scale measures


- d. Interval scale measures ✓
- e. discrete numerical values

The correct answer is: Interval scale measures

Question 4

Incorrect

Mark 0.00 out of 1.00

 Flag question

Consider a sample with the data values of 10, 20, 15, 15, and 25. The standard deviation and mean are respectively

Select one:


- a. 17 and 32.5
- b. $(32.5)^{1/2}$ and 16.9
- c. 8 and 17
- d. $\sqrt{(32.5)}$ and 17
- e. 32.5 and 17 ✗

The correct answer is: $\sqrt{(32.5)}$ and 17

Question 5

Correct

Mark 1.00 out of 1.00

 Flag question

In statistics a population is a fundamental concept used to describe

Select one:


- a. All those things or elements that have some specified attribute(s) or characteristic(s) of interest for a research study. ✓
- b. A number of objects or things gathered for a study.
- c. A subgroup of a larger group.
- d. Any non-specific group of things that are of some interest to managers.
- e. Those persons that happen to be travelling in the country or out of the country when the census is being taken.

The correct answer is: All those things or elements that have some specified attribute(s) or characteristic(s) of interest for a research study.

Question 6

Correct

Mark 1.00 out of 1.00

 Flag question

The scale of measurement that has an inherent zero value defined is the


Select one:

- a. nominal scale
- b. ratio scale ✓
- c. interval scale
- d. ordinal scale

The correct answer is: ratio scale

Question 7

Mark 1.00 out of 1.00

 Flag question

If two groups of numbers have the same mean, then

Select one:


- a. their standard deviations must also be equal
- b. their medians must also be equal
- c. their modes must also be equal
- d. their variances must also be equal
- e. None of these alternatives is correct ✓

The correct answer is: None of these alternatives is correct

Question 8

Correct

Mark 1.00 out of 1.00

 Flag questionLet X be a variable such that X can assume N distinct values. The mean of X is equal to:

Select one:

- a. N times the arithmetic value of X
- b. The range of the values divided by N
- c. The average of NX
- d. The mid-value of the N distinct values
- e. The Sum of X divided by N ✓

The correct answer is: The Sum of X divided by N **Question 9**

Incorrect

Mark 0.00 out of 1.00

 Flag question

In statistics, outcomes and events are generally considered to be generated by processes. A process may be defined as

Select one:

- a. Natural
- b. The result of manmade systems: manufacturing, production, marketing, economic, activity, etc ✗
- c. The result of an experiment
- d. The result of interacting forces
- e. All of the above

The correct answer is: All of the above

Question 10

Correct

Mark 1.00 out of 1.00

 Flag questionLet y be a variable such that Y assumes six distinct values, $\{y_1, y_2, y_3, y_4, y_5, y_6\}$

Select one:

- a. The sum of $y = ny$
- b. The sum of Y cannot be derived.
- c. The sum of $y = n$ times the mean of y ✓
- d. The sum of $y = n$ times (Mid-point of the range)
- e. The sum of Y must equal n times the medium of Y

The correct answer is: The sum of $y = n$ times the mean of y

Question 11

Correct

Mark 1.00 out of 1.00

 Flag question

If the standard deviation of a data set is exactly zero (0), then the data when presented as a dot plot can

Select one:


- a. be described by a uniform distribution.
- b. be described by the graph of a line which is perpendicular to the mean on the X-Axis. ✓
- c. be described by a graph of points clustered around the mean for the data.
- d. be described by a horizontal line in two dimensional space.
- e. effectively measure the variation in the data by using a coefficient of variation equal to 0.005

The correct answer is: be described by the graph of a line which is perpendicular to the mean on the X-Axis.

Question 12

Correct

Mark 1.00 out of 1.00

 Flag question

If the frequency distribution describing a data set is symmetric, then the following is true:

Select one:


- a. Mode is greater than the mean
- b. The mean = the mode= the median. ✓
- c. the mean is less than the median
- d. The mean is greater than the median
- e. The mode < the median

The correct answer is: The mean = the mode= the median.

Question 13

Correct

Mark 1.00 out of 1.00

 Flag question

When the distribution of a data set is known to be skewed or non-symmetric the best measure of convergence is

Select one:


- a. The inter-quartile range
- b. The median ✓
- c. The range
- d. The mean
- e. The mode

The correct answer is: The median

Question 14

Correct

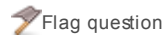
Mark 1.00 out of 1.00

 Flag question

The mean of the squared differences of a Variable from its mean equals

Select one:

- a. Zero



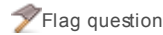
- b. The absolute deviation
- c. The variance of the variable ✓
- d. A positive or negative number
- e. The distance of the values from the mean.

The correct answer is: The variance of the variable

Question 15

Correct

Mark 1.00 out of 1.00



Which of the following is the most accurate and complete description of a frequency distribution?

Select one:

- a. It simplifies the discussion of a topic for an uninitiated/inexperienced audience.
- b. It reveals the pattern in and location of the data on a line segment representing the range. ✓
- c. It is an interesting visual image of the data
- d. It captures the modal class.
- e.) It counts the number of elements in a single specified class interval

The correct answer is: It reveals the pattern in and location of the data on a line segment representing the range.

Question 16

Correct

Mark 1.00 out of 1.00



Which of the following is most accurate and statistically advisable? The information used by the management responsible for making decisions about the expansion of the company's plant capacity is

Select one:

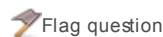
- a. None of the above.
- b. The last month's data on revenues from sales for the company
- c. Reports describing and analyzing the trends and patterns in data collected by departments of the company ✓
- d. The ungrouped raw data collected by the various department of the company.

The correct answer is: Reports describing and analyzing the trends and patterns in data collected by departments of the company

Question 17

Correct

Mark 1.00 out of 1.00



Statistics Canada is conducting a study of Canadian households to determine the profile of the modern Canadian family. It has identified 25 characteristics associated with each household that it wishes to study. The study team decides that it will take a sample of $n = 1500$ household from which to obtain the data for the study. Which of the following is the most accurate

Select one:

- a. The number of variables in the study is greater than 25
- b. The sample must be a simple random sample to ensure that the data is representative

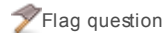
- c. The number of observations in the study is 1500 on 25 characteristics. ✓
- d. It is only necessary to take sample from the two most populated provinces.

The correct answer is: The number of observations in the study is 1500 on 25 characteristics.

Question 18

Correct

Mark 1.00 out of 1.00



The Associate Dean of Undergraduate studies for quality control purposes compared two final examination scores for two production management sections. Section A had a mean score of 50 and a standard deviation of 10. Section B had a mean score of 50 and a standard deviation of 5.

Select one:

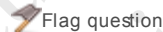
- a. $S_A = 10 > S_B = 5$ students in section A score higher grades on the average than students in section B
- b. Students in section B in their performance are more alike than are students in section A. ✓
- c. Since the mean scores are the same in both sections students performances are identical for the two sections
- d. $S_A = 10 > S_B = 5$ there is less variation in section A than section B

The correct answer is: Students in section B in their performance are more alike than are students in section A.

Question 19

Correct

Mark 1.00 out of 1.00



In a mound shaped or perfectly symmetric distribution (normal) the following is true:

Select one:

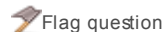
- a. The mode is greater than the mean
- b. The mean is greater than the median
- c. The mean = the mode = the median. ✓
- d. The mode is less than the median

The correct answer is: The mean = the mode = the median.

Question 20

Incorrect

Mark 0.00 out of 1.00



The best measure of central tendency for a qualitative or categorical variable is the

Select one:

- a. The mean
- b. The median
- c. The Mode
- d. A bar chart ✗

The correct answer is: The Mode

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