

Multiple Choice

1. Different methods of developing useful information from large data bases are dealt with under

- a. data manipulation.
- b. data warehousing.
- c. big data.
- d. data mining.

ANSWER: d
POINTS: 1
DIFFICULTY: Easy
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
LEARNING OBJECTIVES: BSST.ASWC.20.01.07 - Big Data and Data Mining
NATIONAL STANDARDS: United States - BUSPROG: Analytic
STATE STANDARDS: United States - AK - DISC: IMA: Reporting
KEYWORDS: Bloom's: Remember
DATE CREATED: 9/26/2018 11:21 AM
DATE MODIFIED: 1/18/2019 3:47 PM

2. The process of capturing, storing, and maintaining data is known as

- a. data manipulation.
- b. data mining.
- c. data warehousing.
- d. big data.

ANSWER: c
POINTS: 1
DIFFICULTY: Easy
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
LEARNING OBJECTIVES: BSST.ASWC.20.01.07 - Big Data and Data Mining
NATIONAL STANDARDS: United States - BUSPROG: Analytic
STATE STANDARDS: United States - AK - DISC: IMA: Reporting
KEYWORDS: Bloom's: Remember
DATE CREATED: 9/26/2018 11:21 AM
DATE MODIFIED: 1/18/2019 3:47 PM

3. The subject of **data mining** deals with

- a. methods for developing useful decision-making information from large data bases.
- b. keeping data secure so that unauthorized individuals cannot access the data.
- c. computational procedure for data analysis.
- d. computing the average for data.

ANSWER: a
POINTS: 1

Chapter 01 - Data and Statistics

DIFFICULTY: Easy
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
LEARNING OBJECTIVES: BSST.ASWC.20.01.07 - Big Data and Data Mining
NATIONAL STANDARDS: United States - BUSPROG: Analytic
STATE STANDARDS: United States - AK - DISC: IMA: Reporting
KEYWORDS: Bloom's: Remember
DATE CREATED: 9/26/2018 11:21 AM
DATE MODIFIED: 1/18/2019 3:47 PM

4. In a questionnaire, respondents are asked to mark their gender as male or female. The scale of measurement for gender is _____ scale.

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

ANSWER: b
POINTS: 1
DIFFICULTY: Easy
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
LEARNING OBJECTIVES: BSST.ASWC.20.01.02 - Data
NATIONAL STANDARDS: United States - BUSPROG: Analytic
STATE STANDARDS: United States - AK - DISC: IMA: Reporting
KEYWORDS: Bloom's: Understand
DATE CREATED: 9/26/2018 11:21 AM
DATE MODIFIED: 1/18/2019 3:47 PM

5. The scale of measurement that is used to rank order the observation for a variable is called the _____ scale.

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

ANSWER: b
POINTS: 1
DIFFICULTY: Easy
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
LEARNING OBJECTIVES: BSST.ASWC.20.01.02 - Data
NATIONAL STANDARDS: United States - BUSPROG: Analytic
STATE STANDARDS: United States - AK - DISC: IMA: Reporting
KEYWORDS: Bloom's: Remember
DATE CREATED: 9/26/2018 11:21 AM

Chapter 01 - Data and Statistics

DATE MODIFIED: 1/18/2019 3:47 PM

6. A restaurant asks their customers to fill out a questionnaire indicating whether their service was excellent, very good, good, or poor. The rating scale used is an example of the _____ scale.

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

ANSWER: a
POINTS: 1
DIFFICULTY: Easy
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
LEARNING OBJECTIVES: BSST.ASWC.20.01.02 - Data
NATIONAL STANDARDS: United States - BUSPROG: Analytic
STATE STANDARDS: United States - AK - DISC: IMA: Reporting
KEYWORDS: Bloom's: Understand
DATE CREATED: 9/26/2018 11:21 AM
DATE MODIFIED: 1/18/2019 3:47 PM

7. The data measured on ordinal scale exhibits all the properties of data measured on

- a. ratio scale.
- b. interval scale.
- c. nominal scale.
- d. nominal and interval scales.

ANSWER: c
POINTS: 1
DIFFICULTY: Easy
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
LEARNING OBJECTIVES: BSST.ASWC.20.01.02 - Data
NATIONAL STANDARDS: United States - BUSPROG: Analytic
STATE STANDARDS: United States - AK - DISC: IMA: Reporting
KEYWORDS: Bloom's: Remember
DATE CREATED: 9/26/2018 11:21 AM
DATE MODIFIED: 1/18/2019 3:47 PM

8. Measurement of body temperature is an example of a variable that uses

- a. the ratio scale.
- b. the interval scale.
- c. the ordinal scale.
- d. either the ratio or the ordinal scale.

ANSWER: b

Chapter 01 - Data and Statistics

<i>POINTS:</i>	1
<i>DIFFICULTY:</i>	Easy
<i>QUESTION TYPE:</i>	Multiple Choice
<i>HAS VARIABLES:</i>	False
<i>LEARNING OBJECTIVES:</i>	BSST.ASWC.20.01.02 - Data
<i>NATIONAL STANDARDS:</i>	United States - BUSPROG: Analytic
<i>STATE STANDARDS:</i>	United States - AK - DISC: IMA: Reporting
<i>KEYWORDS:</i>	Bloom's: Understand
<i>DATE CREATED:</i>	9/26/2018 11:21 AM
<i>DATE MODIFIED:</i>	1/18/2019 3:47 PM

9. Arithmetic operations provide meaningful results for variables that
- use any scale of measurement except nominal and ordinal.
 - appear as non-numerical values.
 - are quantitative.
 - have non-negative values.

<i>ANSWER:</i>	c
<i>POINTS:</i>	1
<i>DIFFICULTY:</i>	Easy
<i>QUESTION TYPE:</i>	Multiple Choice
<i>HAS VARIABLES:</i>	False
<i>LEARNING OBJECTIVES:</i>	BSST.ASWC.20.01.02 - Data
<i>NATIONAL STANDARDS:</i>	United States - BUSPROG: Analytic
<i>STATE STANDARDS:</i>	United States - AK - DISC: IMA: Reporting
<i>KEYWORDS:</i>	Bloom's: Understand
<i>DATE CREATED:</i>	9/26/2018 11:21 AM
<i>DATE MODIFIED:</i>	1/18/2019 3:47 PM

10. Height is an example of a variable that uses the _____ scale.

- ratio
- interval
- nominal
- ordinal

<i>ANSWER:</i>	a
<i>POINTS:</i>	1
<i>DIFFICULTY:</i>	Easy
<i>QUESTION TYPE:</i>	Multiple Choice
<i>HAS VARIABLES:</i>	False
<i>LEARNING OBJECTIVES:</i>	BSST.ASWC.20.01.02 - Data
<i>NATIONAL STANDARDS:</i>	United States - BUSPROG: Analytic
<i>STATE STANDARDS:</i>	United States - AK - DISC: IMA: Reporting
<i>KEYWORDS:</i>	Bloom's: Understand
<i>DATE CREATED:</i>	9/26/2018 11:21 AM
<i>DATE MODIFIED:</i>	1/18/2019 3:47 PM

Chapter 01 - Data and Statistics

11. Data measured a nominal scale

- a. must be alphabetic.
- b. can be either numeric or nonnumeric.
- c. must be numeric.
- d. must rank order the data.

ANSWER: b
POINTS: 1
DIFFICULTY: Easy
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
LEARNING OBJECTIVES: BSST.ASWC.20.01.02 - Data
NATIONAL STANDARDS: United States - BUSPROG: Analytic
STATE STANDARDS: United States - AK - DISC: IMA: Reporting
KEYWORDS: Bloom's: Remember
DATE CREATED: 9/26/2018 11:21 AM
DATE MODIFIED: 1/18/2019 3:47 PM

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

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

ANSWER: a
POINTS: 1
DIFFICULTY: Easy
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
LEARNING OBJECTIVES: BSST.ASWC.20.01.02 - Data
NATIONAL STANDARDS: United States - BUSPROG: Analytic
STATE STANDARDS: United States - AK - DISC: IMA: Reporting
KEYWORDS: Bloom's: Understand
DATE CREATED: 9/26/2018 11:21 AM
DATE MODIFIED: 1/18/2019 3:47 PM

13. The measurement scale suitable for quantitative data is _____ scale.

- a. the ordinal
- b. the nominal
- c. either the interval or ratio
- d. only the interval

ANSWER: c
POINTS: 1
DIFFICULTY: Easy

Chapter 01 - Data and Statistics

QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
LEARNING OBJECTIVES: BSST.ASWC.20.01.02 - Data
NATIONAL STANDARDS: United States - BUSPROG: Analytic
STATE STANDARDS: United States - AK - DISC: IMA: Reporting
KEYWORDS: Bloom's: Remember
DATE CREATED: 9/26/2018 11:21 AM
DATE MODIFIED: 1/18/2019 3:47 PM

14. Data are

- a. always numeric.
- b. always non-numeric.
- c. the raw material of statistics.
- d. always categorical.

ANSWER: c
POINTS: 1
DIFFICULTY: Easy
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
LEARNING OBJECTIVES: BSST.ASWC.20.01.02 - Data
NATIONAL STANDARDS: United States - BUSPROG: Analytic
STATE STANDARDS: United States - AK - DISC: IMA: Reporting
KEYWORDS: Bloom's: Understand
DATE CREATED: 9/26/2018 11:21 AM
DATE MODIFIED: 1/18/2019 3:47 PM

15. The entities on which data are collected are

- a. elements.
- b. populations.
- c. samples.
- d. observations.

ANSWER: a
POINTS: 1
DIFFICULTY: Easy
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
LEARNING OBJECTIVES: BSST.ASWC.20.01.02 - Data
NATIONAL STANDARDS: United States - BUSPROG: Analytic
STATE STANDARDS: United States - AK - DISC: IMA: Reporting
KEYWORDS: Bloom's: Remember
DATE CREATED: 9/26/2018 11:21 AM
DATE MODIFIED: 1/18/2019 3:47 PM

16. The set of measurements collected for a particular element are called

Chapter 01 - Data and Statistics

- a. variables.
- b. observations.
- c. samples.
- d. populations.

ANSWER: b
POINTS: 1
DIFFICULTY: Easy
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
LEARNING OBJECTIVES: BSST.ASWC.20.01.02 - Data
NATIONAL STANDARDS: United States - BUSPROG: Analytic
STATE STANDARDS: United States - AK - DISC: IMA: Reporting
KEYWORDS: Bloom's: Remember
DATE CREATED: 9/26/2018 11:21 AM
DATE MODIFIED: 1/18/2019 3:47 PM

17. A characteristic of interest for the elements is called a

- a. sample.
- b. data set.
- c. variable.
- d. quality.

ANSWER: c
POINTS: 1
DIFFICULTY: Easy
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
LEARNING OBJECTIVES: BSST.ASWC.20.01.02 - Data
NATIONAL STANDARDS: United States - BUSPROG: Analytic
STATE STANDARDS: United States - AK - DISC: IMA: Reporting
KEYWORDS: Bloom's: Remember
DATE CREATED: 9/26/2018 11:21 AM
DATE MODIFIED: 1/18/2019 3:47 PM

18. All the data collected in a particular study are referred to as the

- a. sample.
- b. variable.
- c. data set.
- d. population.

ANSWER: c
POINTS: 1
DIFFICULTY: Easy
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
LEARNING OBJECTIVES: BSST.ASWC.20.01.02 - Data

Chapter 01 - Data and Statistics

<i>NATIONAL STANDARDS:</i>	United States - BUSPROG: Analytic
<i>STATE STANDARDS:</i>	United States - AK - DISC: IMA: Reporting
<i>KEYWORDS:</i>	Bloom's: Remember
<i>DATE CREATED:</i>	9/26/2018 11:21 AM
<i>DATE MODIFIED:</i>	1/18/2019 3:47 PM

19. Quantitative data

- a. are always non-numeric.
- b. may be either numeric or non-numeric.
- c. are always numeric.
- d. are never numeric.

<i>ANSWER:</i>	c
<i>POINTS:</i>	1
<i>DIFFICULTY:</i>	Easy
<i>QUESTION TYPE:</i>	Multiple Choice
<i>HAS VARIABLES:</i>	False
<i>LEARNING OBJECTIVES:</i>	BSST.ASWC.20.01.02 - Data
<i>NATIONAL STANDARDS:</i>	United States - BUSPROG: Analytic
<i>STATE STANDARDS:</i>	United States - AK - DISC: IMA: Reporting
<i>KEYWORDS:</i>	Bloom's: Understand
<i>DATE CREATED:</i>	9/26/2018 11:21 AM
<i>DATE MODIFIED:</i>	1/18/2019 3:47 PM

20. In a questionnaire, respondents are asked to mark their marital status as single, married, divorced, or widowed. Marital status is an example of a(n) _____ variable.

- a. categorical
- b. quantitative
- c. interval-scale
- d. ordinal-scale

<i>ANSWER:</i>	a
<i>POINTS:</i>	1
<i>DIFFICULTY:</i>	Easy
<i>QUESTION TYPE:</i>	Multiple Choice
<i>HAS VARIABLES:</i>	False
<i>LEARNING OBJECTIVES:</i>	BSST.ASWC.20.01.02 - Data
<i>NATIONAL STANDARDS:</i>	United States - BUSPROG: Analytic
<i>STATE STANDARDS:</i>	United States - AK - DISC: IMA: Reporting
<i>KEYWORDS:</i>	Bloom's: Understand
<i>DATE CREATED:</i>	9/26/2018 11:21 AM
<i>DATE MODIFIED:</i>	1/18/2019 3:47 PM

21. The number of observations will always be the same as the

- a. number of variables.
- b. number of elements.

Chapter 01 - Data and Statistics

- c. population size.
- d. sample size.

ANSWER: b
POINTS: 1
DIFFICULTY: Easy
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
LEARNING OBJECTIVES: BSST.ASWC.20.01.02 - Data
NATIONAL STANDARDS: United States - BUSPROG: Analytic
STATE STANDARDS: United States - AK - DISC: IMA: Reporting
KEYWORDS: Bloom's: Understand
DATE CREATED: 9/26/2018 11:21 AM
DATE MODIFIED: 1/18/2019 3:47 PM

22. Categorical data

- a. must be numeric.
- b. must be nonnumeric.
- c. cannot be numeric.
- d. may be either numeric or nonnumeric.

ANSWER: d
POINTS: 1
DIFFICULTY: Easy
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
LEARNING OBJECTIVES: BSST.ASWC.20.01.02 - Data
NATIONAL STANDARDS: United States - BUSPROG: Analytic
STATE STANDARDS: United States - AK - DISC: IMA: Reporting
KEYWORDS: Bloom's: Understand
DATE CREATED: 9/26/2018 11:21 AM
DATE MODIFIED: 1/18/2019 3:47 PM

23. Categorical data

- a. indicate either how much or how many.
- b. cannot be numeric
- c. are labels used to identify attributes of elements.
- d. must be nonnumeric.

ANSWER: c
POINTS: 1
DIFFICULTY: Easy
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
LEARNING OBJECTIVES: BSST.ASWC.20.01.02 - Data
NATIONAL STANDARDS: United States - BUSPROG: Analytic
STATE STANDARDS: United States - AK - DISC: IMA: Reporting

Chapter 01 - Data and Statistics

KEYWORDS: Bloom's: Understand
DATE CREATED: 9/26/2018 11:21 AM
DATE MODIFIED: 1/18/2019 3:47 PM

24. Ordinary arithmetic operations are meaningful

- a. only with categorical data.
- b. only with quantitative data.
- c. either with quantitative or categorical data.
- d. with neither quantitative or categorical data.

ANSWER: b
POINTS: 1
DIFFICULTY: Easy
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
LEARNING OBJECTIVES: BSST.ASWC.20.01.02 - Data
NATIONAL STANDARDS: United States - BUSPROG: Analytic
STATE STANDARDS: United States - AK - DISC: IMA: Reporting
KEYWORDS: Bloom's: Understand
DATE CREATED: 9/26/2018 11:21 AM
DATE MODIFIED: 1/18/2019 3:47 PM

25. A student's dormitory room number is an example of

- a. a quantitative variable.
- b. either a quantitative or a categorical variable.
- c. an exchange variable.
- d. a categorical variable.

ANSWER: d
POINTS: 1
DIFFICULTY: Easy
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
LEARNING OBJECTIVES: BSST.ASWC.20.01.02 - Data
NATIONAL STANDARDS: United States - BUSPROG: Analytic
STATE STANDARDS: United States - AK - DISC: IMA: Reporting
KEYWORDS: Bloom's: Understand
DATE CREATED: 9/26/2018 11:21 AM
DATE MODIFIED: 1/18/2019 3:47 PM

26. Goals scored in a soccer game is an example of

- a. a categorical variable.
- b. a quantitative variable.
- c. either a quantitative or categorical variable.
- d. neither a quantitative nor categorical variable.

ANSWER: b

Chapter 01 - Data and Statistics

<i>POINTS:</i>	1
<i>DIFFICULTY:</i>	Easy
<i>QUESTION TYPE:</i>	Multiple Choice
<i>HAS VARIABLES:</i>	False
<i>LEARNING OBJECTIVES:</i>	BSST.ASWC.20.01.02 - Data
<i>NATIONAL STANDARDS:</i>	United States - BUSPROG: Analytic
<i>STATE STANDARDS:</i>	United States - AK - DISC: IMA: Reporting
<i>KEYWORDS:</i>	Bloom's: Understand
<i>DATE CREATED:</i>	9/26/2018 11:21 AM
<i>DATE MODIFIED:</i>	1/18/2019 3:47 PM

27. For ease of data entry into a university database, 1 denotes that the student is a freshman, 2 indicates a sophomore, 3 indicates a junior, and 4 indicates that the student is a senior. In this case, data are

- a. categorical.
- b. quantitative.
- c. either categorical or quantitative.
- d. neither categorical nor quantitative.

<i>ANSWER:</i>	a
<i>POINTS:</i>	1
<i>DIFFICULTY:</i>	Easy
<i>QUESTION TYPE:</i>	Multiple Choice
<i>HAS VARIABLES:</i>	False
<i>LEARNING OBJECTIVES:</i>	BSST.ASWC.20.01.02 - Data
<i>NATIONAL STANDARDS:</i>	United States - BUSPROG: Analytic
<i>STATE STANDARDS:</i>	United States - AK - DISC: IMA: Reporting
<i>KEYWORDS:</i>	Bloom's: Understand
<i>DATE CREATED:</i>	9/26/2018 11:21 AM
<i>DATE MODIFIED:</i>	1/18/2019 3:47 PM

28. Arithmetic operations are inappropriate for

- a. categorical data.
- b. quantitative data.
- c. both categorical and quantitative data.
- d. large data sets.

<i>ANSWER:</i>	a
<i>POINTS:</i>	1
<i>DIFFICULTY:</i>	Easy
<i>QUESTION TYPE:</i>	Multiple Choice
<i>HAS VARIABLES:</i>	False
<i>LEARNING OBJECTIVES:</i>	BSST.ASWC.20.01.02 - Data
<i>NATIONAL STANDARDS:</i>	United States - BUSPROG: Analytic
<i>STATE STANDARDS:</i>	United States - AK - DISC: IMA: Reporting
<i>KEYWORDS:</i>	Bloom's: Remember
<i>DATE CREATED:</i>	9/26/2018 11:21 AM

Chapter 01 - Data and Statistics

DATE MODIFIED: 1/18/2019 3:47 PM

29. Cost of a theater ticket is an example of

- a. categorical data.
- b. either categorical or quantitative data.
- c. nominal data.
- d. quantitative data.

ANSWER: d
POINTS: 1
DIFFICULTY: Easy
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
LEARNING OBJECTIVES: BSST.ASWC.20.01.02 - Data
NATIONAL STANDARDS: United States - BUSPROG: Analytic
STATE STANDARDS: United States - AK - DISC: IMA: Reporting
KEYWORDS: Bloom's: Understand
DATE CREATED: 9/26/2018 11:21 AM
DATE MODIFIED: 1/18/2019 3:47 PM

30. Data collected at the same, or approximately the same point in time are _____ data.

- a. time series
- b. approximate time series
- c. cross-sectional
- d. approximate

ANSWER: c
POINTS: 1
DIFFICULTY: Easy
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
LEARNING OBJECTIVES: BSST.ASWC.20.01.02 - Data
NATIONAL STANDARDS: United States - BUSPROG: Analytic
STATE STANDARDS: United States - AK - DISC: IMA: Reporting
KEYWORDS: Bloom's: Remember
DATE CREATED: 9/26/2018 11:21 AM
DATE MODIFIED: 1/18/2019 3:47 PM

31. Data collected over several time periods are _____ data.

- a. time series
- b. time controlled
- c. cross-sectional
- d. periodic

ANSWER: a
POINTS: 1
DIFFICULTY: Easy

Chapter 01 - Data and Statistics

QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
LEARNING OBJECTIVES: BSST.ASWC.20.01.02 - Data
NATIONAL STANDARDS: United States - BUSPROG: Analytic
STATE STANDARDS: United States - AK - DISC: IMA: Reporting
KEYWORDS: Bloom's: Remember
DATE CREATED: 9/26/2018 11:21 AM
DATE MODIFIED: 1/18/2019 3:47 PM

32. Statistical studies in which researchers do not control variables of interest are _____ studies.

- a. experimental
- b. random variable
- c. inferential
- d. observational

ANSWER: d
POINTS: 1
DIFFICULTY: Easy
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
LEARNING OBJECTIVES: BSST.ASWC.20.01.03 - Data Sources
NATIONAL STANDARDS: United States - BUSPROG: Analytic
STATE STANDARDS: United States - AK - DISC: IMA: Reporting
KEYWORDS: Bloom's: Understand
DATE CREATED: 9/26/2018 11:22 AM
DATE MODIFIED: 1/18/2019 3:47 PM

33. Statistical studies in which researchers control variables of interest are _____ studies.

- a. experimental
- b. random variable
- c. inferential
- d. observational

ANSWER: a
POINTS: 1
DIFFICULTY: Easy
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
LEARNING OBJECTIVES: BSST.ASWC.20.01.03 - Data Sources
NATIONAL STANDARDS: United States - BUSPROG: Analytic
STATE STANDARDS: United States - AK - DISC: IMA: Reporting
KEYWORDS: Bloom's: Understand
DATE CREATED: 9/26/2018 11:22 AM
DATE MODIFIED: 1/18/2019 3:47 PM

34. The summaries of data, which may be tabular, graphical, or numerical, are referred to as _____ statistics.

Chapter 01 - Data and Statistics

- a. inferential
- b. descriptive
- c. observational
- d. experimental

ANSWER: b
POINTS: 1
DIFFICULTY: Easy
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
LEARNING OBJECTIVES: BSST.ASWC.20.01.04 - Descriptive Statistics
NATIONAL STANDARDS: United States - BUSPROG: Analytic
STATE STANDARDS: United States - AK - DISC: Descriptive Statistics
KEYWORDS: Bloom's: Remember
DATE CREATED: 9/26/2018 11:22 AM
DATE MODIFIED: 1/18/2019 3:47 PM

35. Statistical inference

- a. refers to the process of drawing inferences about the sample based on the characteristics of the population.
- b. is the same as descriptive statistics.
- c. is the process of drawing inferences about the population based on the information taken from the sample.
- d. is the same as a census.

ANSWER: c
POINTS: 1
DIFFICULTY: Easy
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
LEARNING OBJECTIVES: BSST.ASWC.20.01.05 - Statistical Inference
NATIONAL STANDARDS: United States - BUSPROG: Analytic
STATE STANDARDS: United States - AK - DISC: Statistical Inference
KEYWORDS: Bloom's: Understand
DATE CREATED: 9/26/2018 11:22 AM
DATE MODIFIED: 1/18/2019 3:47 PM

36. The collection of all elements of interest in a study is

- a. the population.
- b. the sample.
- c. a survey.
- d. a census.

ANSWER: a
POINTS: 1
DIFFICULTY: Easy
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
LEARNING OBJECTIVES: BSST.ASWC.20.01.05 - Statistical Inference

Chapter 01 - Data and Statistics

<i>NATIONAL STANDARDS:</i>	United States - BUSPROG: Analytic
<i>STATE STANDARDS:</i>	United States - AK - DISC: Statistical Inference
<i>KEYWORDS:</i>	Bloom's: Remember
<i>DATE CREATED:</i>	9/26/2018 11:22 AM
<i>DATE MODIFIED:</i>	1/18/2019 3:47 PM

37. A portion selected to represent the whole is called a

- a. survey.
- b. population.
- c. census.
- d. sample.

<i>ANSWER:</i>	d
<i>POINTS:</i>	1
<i>DIFFICULTY:</i>	Easy
<i>QUESTION TYPE:</i>	Multiple Choice
<i>HAS VARIABLES:</i>	False
<i>LEARNING OBJECTIVES:</i>	BSST.ASWC.20.01.05 - Statistical Inference
<i>NATIONAL STANDARDS:</i>	United States - BUSPROG: Analytic
<i>STATE STANDARDS:</i>	United States - AK - DISC: Statistical Inference
<i>KEYWORDS:</i>	Bloom's: Understand
<i>DATE CREATED:</i>	9/26/2018 11:22 AM
<i>DATE MODIFIED:</i>	1/18/2019 3:47 PM

38. In a sample of 800 students in a university, 240 or 30% are Business majors. The 30% is an example of

- a. a sample.
- b. a population.
- c. statistical inference.
- d. descriptive statistics.

<i>ANSWER:</i>	d
<i>POINTS:</i>	1
<i>DIFFICULTY:</i>	Easy
<i>QUESTION TYPE:</i>	Multiple Choice
<i>HAS VARIABLES:</i>	False
<i>LEARNING OBJECTIVES:</i>	BSST.ASWC.20.01.04 - Descriptive Statistics
<i>NATIONAL STANDARDS:</i>	United States - BUSPROG: Analytic
<i>STATE STANDARDS:</i>	United States - AK - DISC: Descriptive Statistics
<i>KEYWORDS:</i>	Bloom's: Understand
<i>DATE CREATED:</i>	9/26/2018 11:22 AM
<i>DATE MODIFIED:</i>	1/18/2019 3:47 PM

39. In a sample of 400 students in a university, 80 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.

Chapter 01 - Data and Statistics

- c. statistical inference.
- d. descriptive statistics.

ANSWER: c
POINTS: 1
DIFFICULTY: Easy
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
LEARNING OBJECTIVES: BSST.ASWC.20.01.05 - Statistical Inference
NATIONAL STANDARDS: United States - BUSPROG: Analytic
STATE STANDARDS: United States - AK - DISC: Statistical Inference
KEYWORDS: Bloom's: Understand
DATE CREATED: 9/26/2018 11:22 AM
DATE MODIFIED: 1/18/2019 3:47 PM

40. Five hundred residents of a city with a population of 240,495 are polled to obtain information on voting intentions in an upcoming city election. The five hundred residents in this study is an example of a(n)

- a. census.
- b. sample.
- c. observation.
- d. population.

ANSWER: b
POINTS: 1
DIFFICULTY: Easy
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
LEARNING OBJECTIVES: BSST.ASWC.20.01.05 - Statistical Inference
NATIONAL STANDARDS: United States - BUSPROG: Analytic
STATE STANDARDS: United States - AK - DISC: Statistical Inference
KEYWORDS: Bloom's: Understand
DATE CREATED: 9/26/2018 11:22 AM
DATE MODIFIED: 1/18/2019 3:47 PM

41. A statistics professor asked students in a class their ages. Based on this information, the professor states that the average age of all the students in the university is 24 years. This is an example of

- a. an observational study.
- b. descriptive statistics.
- c. an experiment.
- d. statistical inference.

ANSWER: d
POINTS: 1
DIFFICULTY: Easy
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
LEARNING OBJECTIVES: BSST.ASWC.20.01.05 - Statistical Inference

Chapter 01 - Data and Statistics

<i>NATIONAL STANDARDS:</i>	United States - BUSPROG: Analytic
<i>STATE STANDARDS:</i>	United States - AK - DISC: Statistical Inference
<i>KEYWORDS:</i>	Bloom's: Understand
<i>DATE CREATED:</i>	9/26/2018 11:22 AM
<i>DATE MODIFIED:</i>	1/18/2019 3:47 PM

42. The owner of a factory regularly requests a graphical summary of all employees' salaries. The graphical summary of salaries is an example of _____ statistics.

- a. inferential
- b. descriptive
- c. experimental
- d. observational

<i>ANSWER:</i>	b
<i>POINTS:</i>	1
<i>DIFFICULTY:</i>	Easy
<i>QUESTION TYPE:</i>	Multiple Choice
<i>HAS VARIABLES:</i>	False
<i>LEARNING OBJECTIVES:</i>	BSST.ASWC.20.01.04 - Descriptive Statistics
<i>NATIONAL STANDARDS:</i>	United States - BUSPROG: Analytic
<i>STATE STANDARDS:</i>	United States - AK - DISC: Descriptive Statistics
<i>KEYWORDS:</i>	Bloom's: Understand
<i>DATE CREATED:</i>	9/26/2018 11:22 AM
<i>DATE MODIFIED:</i>	1/18/2019 3:47 PM

43. The Department of Transportation of a city has calculated that on the average there are 17 accidents per day. The average number of accidents is an example of

- a. descriptive statistics.
- b. statistical inference.
- c. a sample.
- d. a population.

<i>ANSWER:</i>	a
<i>POINTS:</i>	1
<i>DIFFICULTY:</i>	Easy
<i>QUESTION TYPE:</i>	Multiple Choice
<i>HAS VARIABLES:</i>	False
<i>LEARNING OBJECTIVES:</i>	BSST.ASWC.20.01.04 - Descriptive Statistics
<i>NATIONAL STANDARDS:</i>	United States - BUSPROG: Analytic
<i>STATE STANDARDS:</i>	United States - AK - DISC: Descriptive Statistics
<i>KEYWORDS:</i>	Bloom's: Understand
<i>DATE CREATED:</i>	9/26/2018 11:22 AM
<i>DATE MODIFIED:</i>	1/18/2019 3:47 PM

44. The process of analyzing sample data in order to draw conclusions about the characteristics of a population is called

- a. descriptive statistics.

Chapter 01 - Data and Statistics

- b. statistical inference.
- c. data analysis.
- d. data summarization.

ANSWER: b
POINTS: 1
DIFFICULTY: Easy
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
LEARNING OBJECTIVES: BSST.ASWC.20.01.05 - Statistical Inference
NATIONAL STANDARDS: United States - BUSPROG: Analytic
STATE STANDARDS: United States - AK - DISC: Statistical Inference
KEYWORDS: Bloom's: Remember
DATE CREATED: 9/26/2018 11:22 AM
DATE MODIFIED: 1/18/2019 3:47 PM

45. In a post office, the mailboxes are numbered from 1 to 4,500. These numbers represent
- a. categorical data.
 - b. quantitative data.
 - c. either categorical or quantitative data.
 - d. since the numbers are sequential, the data is quantitative.

ANSWER: a
POINTS: 1
DIFFICULTY: Easy
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
LEARNING OBJECTIVES: BSST.ASWC.20.01.02 - Data
NATIONAL STANDARDS: United States - BUSPROG: Analytic
STATE STANDARDS: United States - AK - DISC: IMA: Reporting
KEYWORDS: Bloom's: Understand
DATE CREATED: 9/26/2018 11:22 AM
DATE MODIFIED: 1/18/2019 3:47 PM

46. The average age in a sample of 190 students at City College is 22. As a result of this sample, it can be concluded that the average age of all the students at City College
- a. must be more than 22, since the population is always larger than the sample.
 - b. must be less than 22, since the sample is only a part of the population.
 - c. could not be 22.
 - d. is around 22.

ANSWER: d
POINTS: 1
DIFFICULTY: Easy
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
LEARNING OBJECTIVES: BSST.ASWC.20.01.05 - Statistical Inference

Chapter 01 - Data and Statistics

NATIONAL STANDARDS: United States - BUSPROG: Analytic
STATE STANDARDS: United States - AK - DISC: Statistical Inference
KEYWORDS: Bloom's: Understand
DATE CREATED: 9/26/2018 11:22 AM
DATE MODIFIED: 1/18/2019 3:47 PM

47. Since a sample is a subset of the population, the sample mean _____ the mean of the population.
- a. is always smaller than
 - b. is always larger than
 - c. must be equal to
 - d. varies around

ANSWER: d
POINTS: 1
DIFFICULTY: Easy
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
LEARNING OBJECTIVES: BSST.ASWC.20.01.05 - Statistical Inference
NATIONAL STANDARDS: United States - BUSPROG: Analytic
STATE STANDARDS: United States - AK - DISC: Statistical Inference
KEYWORDS: Bloom's: Understand
DATE CREATED: 9/26/2018 11:22 AM
DATE MODIFIED: 1/18/2019 3:47 PM

48. The scale of measurement used for variable data that is simply a label for the purpose of identifying the attribute of an element is the _____ scale.
- a. ratio
 - b. nominal
 - c. ordinal
 - d. interval

ANSWER: b
POINTS: 1
DIFFICULTY: Easy
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
LEARNING OBJECTIVES: BSST.ASWC.20.01.02 - Data
NATIONAL STANDARDS: United States - BUSPROG: Analytic
STATE STANDARDS: United States - AK - DISC: IMA: Reporting
KEYWORDS: Bloom's: Understand
DATE CREATED: 9/26/2018 11:22 AM
DATE MODIFIED: 1/18/2019 3:47 PM

49. In a data set, the number of elements will always be the same as the number of
- a. independent variables.
 - b. observations.

Chapter 01 - Data and Statistics

- c. data points.
- d. dependent variables.

ANSWER: b
POINTS: 1
DIFFICULTY: Easy
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
LEARNING OBJECTIVES: BSST.ASWC.20.01.02 - Data
NATIONAL STANDARDS: United States - BUSPROG: Analytic
STATE STANDARDS: United States - AK - DISC: IMA: Reporting
KEYWORDS: Bloom's: Understand
DATE CREATED: 9/26/2018 11:22 AM
DATE MODIFIED: 1/18/2019 3:47 PM

50. Which of the following is **not** a scale of measurement?

- a. Nominal
- b. Ordinal
- c. Interval
- d. Observational

ANSWER: d
POINTS: 1
DIFFICULTY: Easy
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
LEARNING OBJECTIVES: BSST.ASWC.20.01.02 - Data
NATIONAL STANDARDS: United States - BUSPROG: Analytic
STATE STANDARDS: United States - AK - DISC: IMA: Reporting
KEYWORDS: Bloom's: Understand
DATE CREATED: 9/26/2018 11:22 AM
DATE MODIFIED: 1/18/2019 3:47 PM

51. Which of the following is a scale of measurement?

- a. Ratio
- b. Proportion
- c. Sample
- d. Inferential

ANSWER: a
POINTS: 1
DIFFICULTY: Easy
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
LEARNING OBJECTIVES: BSST.ASWC.20.01.02 - Data
NATIONAL STANDARDS: United States - BUSPROG: Analytic
STATE STANDARDS: United States - AK - DISC: IMA: Reporting

Chapter 01 - Data and Statistics

KEYWORDS: Bloom's: Understand
DATE CREATED: 9/26/2018 11:22 AM
DATE MODIFIED: 1/18/2019 3:47 PM

52. Which scale of measurement can be either numeric or non-numeric?

- a. Nominal
- b. Ratio
- c. Interval
- d. Quantitative

ANSWER: a
POINTS: 1
DIFFICULTY: Easy
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
LEARNING OBJECTIVES: BSST.ASWC.20.01.02 - Data
NATIONAL STANDARDS: United States - BUSPROG: Analytic
STATE STANDARDS: United States - AK - DISC: IMA: Reporting
KEYWORDS: Bloom's: Understand
DATE CREATED: 9/26/2018 11:22 AM
DATE MODIFIED: 1/18/2019 3:47 PM

53. Which of the following variables use the ratio scale of measurement?

- a. Driver's license number
- b. Temperature
- c. Gender
- d. Weight

ANSWER: d
POINTS: 1
DIFFICULTY: Easy
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
LEARNING OBJECTIVES: BSST.ASWC.20.01.02 - Data
NATIONAL STANDARDS: United States - BUSPROG: Analytic
STATE STANDARDS: United States - AK - DISC: IMA: Reporting
KEYWORDS: Bloom's: Understand
DATE CREATED: 9/26/2018 11:22 AM
DATE MODIFIED: 1/18/2019 3:47 PM

54. The numbers on football jerseys are an example of _____ data.

- a. categorical
- b. either categorical or quantitative
- c. neither categorical or quantitative
- d. quantitative

ANSWER: a

Chapter 01 - Data and Statistics

<i>POINTS:</i>	1
<i>DIFFICULTY:</i>	Easy
<i>QUESTION TYPE:</i>	Multiple Choice
<i>HAS VARIABLES:</i>	False
<i>LEARNING OBJECTIVES:</i>	BSST.ASWC.20.01.02 - Data
<i>NATIONAL STANDARDS:</i>	United States - BUSPROG: Analytic
<i>STATE STANDARDS:</i>	United States - AK - DISC: IMA: Reporting
<i>KEYWORDS:</i>	Bloom's: Understand
<i>DATE CREATED:</i>	9/26/2018 11:22 AM
<i>DATE MODIFIED:</i>	1/18/2019 3:47 PM

55. The height of a building, measured in feet, is an example of _____ data.

- a. categorical
- b. either categorical or quantitative
- c. neither categorical or quantitative
- d. quantitative

<i>ANSWER:</i>	d
<i>POINTS:</i>	1
<i>DIFFICULTY:</i>	Easy
<i>QUESTION TYPE:</i>	Multiple Choice
<i>HAS VARIABLES:</i>	False
<i>LEARNING OBJECTIVES:</i>	BSST.ASWC.20.01.02 - Data
<i>NATIONAL STANDARDS:</i>	United States - BUSPROG: Analytic
<i>STATE STANDARDS:</i>	United States - AK - DISC: IMA: Reporting
<i>KEYWORDS:</i>	Bloom's: Understand
<i>DATE CREATED:</i>	9/26/2018 11:22 AM
<i>DATE MODIFIED:</i>	1/18/2019 3:47 PM

56. An interviewer has made an error in recording the data. This type of error is known as a(n) _____ error.

- a. experimental
- b. data acquisition
- c. non-experimental
- d. conglomerate

<i>ANSWER:</i>	b
<i>POINTS:</i>	1
<i>DIFFICULTY:</i>	Easy
<i>QUESTION TYPE:</i>	Multiple Choice
<i>HAS VARIABLES:</i>	False
<i>LEARNING OBJECTIVES:</i>	BSST.ASWC.20.01.03 - Data Sources
<i>NATIONAL STANDARDS:</i>	United States - BUSPROG: Analytic
<i>STATE STANDARDS:</i>	United States - AK - DISC: IMA: Reporting
<i>KEYWORDS:</i>	Bloom's: Understand
<i>DATE CREATED:</i>	9/26/2018 11:22 AM
<i>DATE MODIFIED:</i>	1/18/2019 3:47 PM

Chapter 01 - Data and Statistics

57. Census refers to a(n)

- a. experimental study to collect data on the entire population.
- b. experimental study to collect data on a sample.
- c. survey to collect data on a sample.
- d. survey to collect data on the entire population.

ANSWER: d
POINTS: 1
DIFFICULTY: Easy
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
LEARNING OBJECTIVES: BSST.ASWC.20.01.05 - Statistical Inference
NATIONAL STANDARDS: United States - BUSPROG: Analytic
STATE STANDARDS: United States - AK - DISC: Statistical Inference
KEYWORDS: Bloom's: Remember
DATE CREATED: 9/26/2018 11:22 AM
DATE MODIFIED: 1/18/2019 3:47 PM

58. In experimental studies, the variable of interest

- a. is not controlled.
- b. is controlled.
- c. must be numerical.
- d. cannot be numerical.

ANSWER: b
POINTS: 1
DIFFICULTY: Easy
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
LEARNING OBJECTIVES: BSST.ASWC.20.01.03 - Data Sources
NATIONAL STANDARDS: United States - BUSPROG: Analytic
STATE STANDARDS: United States - AK - DISC: IMA: Reporting
KEYWORDS: Bloom's: Understand
DATE CREATED: 9/26/2018 11:22 AM
DATE MODIFIED: 1/18/2019 3:47 PM

59. In observational studies, the variable of interest

- a. is not controlled.
- b. is controlled.
- c. must be numerical.
- d. cannot be numerical.

ANSWER: a
POINTS: 1
DIFFICULTY: Easy
QUESTION TYPE: Multiple Choice

Chapter 01 - Data and Statistics

HAS VARIABLES: False
LEARNING OBJECTIVES: BSST.ASWC.20.01.03 - Data Sources
NATIONAL STANDARDS: United States - BUSPROG: Analytic
STATE STANDARDS: United States - AK - DISC: IMA: Reporting
KEYWORDS: Bloom's: Understand
DATE CREATED: 9/26/2018 11:22 AM
DATE MODIFIED: 1/18/2019 3:47 PM

60. How many scales of measurement exist?

- a. 2
- b. 4
- c. 6
- d. 8

ANSWER: b
POINTS: 1
DIFFICULTY: Easy
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False

LEARNING OBJECTIVES: BSST.ASWC.20.01.02 - Data
NATIONAL STANDARDS: United States - BUSPROG: Analytic
STATE STANDARDS: United States - AK - DISC: IMA: Reporting
KEYWORDS: Bloom's: Remember
DATE CREATED: 9/26/2018 11:22 AM
DATE MODIFIED: 1/18/2019 3:47 PM

61. Which of the following scales of measurement are appropriate for quantitative data?

- a. Interval and ordinal
- b. Ratio and ordinal
- c. Nominal and ordinal
- d. Interval and ratio

ANSWER: d
POINTS: 1
DIFFICULTY: Easy
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
LEARNING OBJECTIVES: BSST.ASWC.20.01.02 - Data
NATIONAL STANDARDS: United States - BUSPROG: Analytic
STATE STANDARDS: United States - AK - DISC: IMA: Reporting
KEYWORDS: Bloom's: Understand
DATE CREATED: 9/26/2018 11:22 AM
DATE MODIFIED: 1/18/2019 3:47 PM

62. The sample size

- a. can be larger than the population size.

Chapter 01 - Data and Statistics

- b. is always smaller than the population size.
- c. can be larger or smaller than the population size.
- d. is always equal to the size of the population.

ANSWER: b
POINTS: 1
DIFFICULTY: Easy
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
LEARNING OBJECTIVES: BSST.ASWC.20.01.05 - Statistical Inference
NATIONAL STANDARDS: United States - BUSPROG: Analytic
STATE STANDARDS: United States - AK - DISC: Statistical Inference
KEYWORDS: Bloom's: Understand
DATE CREATED: 9/26/2018 11:22 AM
DATE MODIFIED: 1/18/2019 3:47 PM

63. A population is
- a. the same as a sample.
 - b. the selection of a random sample.
 - c. the collection of all items of interest in a study.
 - d. always the same size as the sample.

ANSWER: c
POINTS: 1
DIFFICULTY: Easy
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
LEARNING OBJECTIVES: BSST.ASWC.20.01.05 - Statistical Inference
NATIONAL STANDARDS: United States - BUSPROG: Analytic
STATE STANDARDS: United States - AK - DISC: Statistical Inference
KEYWORDS: Bloom's: Understand
DATE CREATED: 9/26/2018 11:22 AM
DATE MODIFIED: 1/18/2019 3:47 PM

64. In a random sample of 200 items, 5 items were defective. An estimate of the percentage of defective items in the population is

- a. 5%.
- b. 2.5%.
- c. 20%.
- d. 10%.

ANSWER: b
POINTS: 1
DIFFICULTY: Easy
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
LEARNING OBJECTIVES: BSST.ASWC.20.01.05 - Statistical Inference

Chapter 01 - Data and Statistics

<i>NATIONAL STANDARDS:</i>	United States - BUSPROG: Analytic
<i>STATE STANDARDS:</i>	United States - AK - DISC: Statistical Inference
<i>KEYWORDS:</i>	Bloom's: Apply
<i>DATE CREATED:</i>	9/26/2018 11:22 AM
<i>DATE MODIFIED:</i>	1/18/2019 3:47 PM

65. On a street, the houses are numbered from 300 to 450. The house numbers are examples of _____ data.
- categorical
 - quantitative
 - both quantitative and categorical
 - neither quantitative nor categorical

<i>ANSWER:</i>	a
<i>POINTS:</i>	1
<i>DIFFICULTY:</i>	Easy
<i>QUESTION TYPE:</i>	Multiple Choice
<i>HAS VARIABLES:</i>	False
<i>LEARNING OBJECTIVES:</i>	BSST.ASWC.20.01.02 - Data
<i>NATIONAL STANDARDS:</i>	United States - BUSPROG: Analytic
<i>STATE STANDARDS:</i>	United States - AK - DISC: IMA: Reporting
<i>KEYWORDS:</i>	Bloom's: Understand
<i>DATE CREATED:</i>	9/26/2018 11:22 AM
<i>DATE MODIFIED:</i>	1/18/2019 3:47 PM

66. A survey to collect data on the entire population is a(n)
- census.
 - sample.
 - population.
 - inference.

<i>ANSWER:</i>	a
<i>POINTS:</i>	1
<i>DIFFICULTY:</i>	Easy
<i>QUESTION TYPE:</i>	Multiple Choice
<i>HAS VARIABLES:</i>	False
<i>LEARNING OBJECTIVES:</i>	BSST.ASWC.20.01.05 - Statistical Inference
<i>NATIONAL STANDARDS:</i>	United States - BUSPROG: Analytic
<i>STATE STANDARDS:</i>	United States - AK - DISC: Statistical Inference
<i>KEYWORDS:</i>	Bloom's: Remember
<i>DATE CREATED:</i>	9/26/2018 11:22 AM
<i>DATE MODIFIED:</i>	1/18/2019 3:47 PM

67. In a sample of 1,600 registered voters, 912 or 57% approve of the way the President is doing his job. The 57% approval is an example of
- a sample.
 - descriptive statistics.

Chapter 01 - Data and Statistics

- c. statistical inference.
- d. a population.

ANSWER: b
POINTS: 1
DIFFICULTY: Easy
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
LEARNING OBJECTIVES: BSST.ASWC.20.01.04 - Descriptive Statistics
NATIONAL STANDARDS: United States - BUSPROG: Analytic
STATE STANDARDS: United States - AK - DISC: Descriptive Statistics
KEYWORDS: Bloom's: Understand
DATE CREATED: 9/26/2018 11:22 AM
DATE MODIFIED: 1/18/2019 3:47 PM

68. In a sample of 1,600 registered voters, 912 or 57% approve of the way the President is doing his job. A political pollster estimates: "Fifty-seven percent of all voters approve of the President." This statement is an example of

- a. a sample.
- b. descriptive statistics.
- c. statistical inference.
- d. a population.

ANSWER: c
POINTS: 1
DIFFICULTY: Easy
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
LEARNING OBJECTIVES: BSST.ASWC.20.01.05 - Statistical Inference
NATIONAL STANDARDS: United States - BUSPROG: Analytic
STATE STANDARDS: United States - AK - DISC: Statistical Inference
KEYWORDS: Bloom's: Understand
DATE CREATED: 9/26/2018 11:22 AM
DATE MODIFIED: 1/18/2019 3:47 PM

69. The type of analytics whose models yield a best course of action to take is _____ analytics.

- a. descriptive
- b. prescriptive
- c. predictive
- d. inferential

ANSWER: b
POINTS: 1
DIFFICULTY: Easy
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
LEARNING OBJECTIVES: BSST.ASWC.20.01.07 - Big Data and Data Mining
NATIONAL STANDARDS: United States - BUSPROG: Analytic

Chapter 01 - Data and Statistics

STATE STANDARDS: United States - AK - DISC: IMA: Reporting
KEYWORDS: Bloom's: Remember
DATE CREATED: 9/26/2018 11:22 AM
DATE MODIFIED: 1/18/2019 3:47 PM

70. Data dash-board is an analytical technique that falls in the category of _____ analytics.

- a. prescriptive
- b. predictive
- c. descriptive
- d. diagnostic

ANSWER: c
POINTS: 1
DIFFICULTY: Easy
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
LEARNING OBJECTIVES: BSST.ASWC.20.01.06 - Analytics
NATIONAL STANDARDS: United States - BUSPROG:Analytic
STATE STANDARDS: United States - AK - DISC: IMA: Reporting
KEYWORDS: Bloom's: Remember
DATE CREATED: 9/26/2018 11:22 AM
DATE MODIFIED: 1/18/2019 3:47 PM

71. Optimization models, which generate solutions that maximize or minimize some objective subject to a set of constraints, fall into the category of _____ analytics.

- a. prescriptive
- b. predictive
- c. descriptive
- d. diagnostic

ANSWER: a
POINTS: 1
DIFFICULTY: Easy
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
LEARNING OBJECTIVES: BSST.ASWC.20.01.06 - Analytics
NATIONAL STANDARDS: United States - BUSPROG:Analytic
STATE STANDARDS: United States - AK - DISC: IMA: Reporting
KEYWORDS: Bloom's: Understand
DATE CREATED: 9/26/2018 11:22 AM
DATE MODIFIED: 1/18/2019 3:47 PM

72. Simulation, which is the use of probability and statistical computer models to better understand risk, falls under the category of _____ analytics.

- a. prescriptive
- b. predictive

Chapter 01 - Data and Statistics

- c. descriptive
- d. diagnostic

ANSWER: b
POINTS: 1
DIFFICULTY: Easy
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
LEARNING OBJECTIVES: BSST.ASWC.20.01.06 - Analytics
NATIONAL STANDARDS: United States - BUSPROG:Analytic
STATE STANDARDS: United States - AK - DISC: IMA: Reporting
KEYWORDS: Bloom's: Understand
DATE CREATED: 9/26/2018 11:22 AM
DATE MODIFIED: 1/18/2019 3:47 PM

73. The set of analytical techniques that yield a best course of action is _____ analytics.

- a. prescriptive
- b. predictive
- c. descriptive
- d. diagnostic

ANSWER: a
POINTS: 1
DIFFICULTY: Easy
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
LEARNING OBJECTIVES: BSST.ASWC.20.01.02 - Data
NATIONAL STANDARDS: United States - BUSPROG:Analytic
STATE STANDARDS: United States - AK - DISC: IMA: Reporting
KEYWORDS: Bloom's: Understand
DATE CREATED: 9/26/2018 11:22 AM
DATE MODIFIED: 1/18/2019 3:47 PM

74. Analytics is generally thought to comprise three broad categories of techniques that include all of the following except _____ analytics.

- a. prescriptive
- b. predictive
- c. descriptive
- d. diagnostic

ANSWER: d
POINTS: 1
DIFFICULTY: Easy
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
LEARNING OBJECTIVES: BSST.ASWC.20.01.02 - Data
NATIONAL STANDARDS: United States - BUSPROG:Analytic

Chapter 01 - Data and Statistics

STATE STANDARDS: United States - AK - DISC: IMA: Reporting
KEYWORDS: Bloom's: Remember
DATE CREATED: 9/26/2018 11:22 AM
DATE MODIFIED: 1/18/2019 3:47 PM

75. The largest experimental statistical study ever conducted is believed to be for

- a. Cholera.
- b. Polio.
- c. Diphtheria.
- d. Malaria.

ANSWER: b
POINTS: 1
DIFFICULTY: Easy
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
LEARNING OBJECTIVES: BSST.ASWC.20.01.03 - Data Sources
NATIONAL STANDARDS: United States - BUSPROG:Analytic
STATE STANDARDS: United States - AK - DISC: IMA: Reporting
KEYWORDS: Bloom's: Remember
DATE CREATED: 9/26/2018 11:22 AM
DATE MODIFIED: 1/18/2019 3:47 PM

76. Which of the following is a categorical variable?

- a. Your age when you began college
- b. Your Social Security Number
- c. Your statistics class start time
- d. Your birth year

ANSWER: b
POINTS: 1
DIFFICULTY: Easy
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
LEARNING OBJECTIVES: BSST.ASWC.20.01.02 - Data
NATIONAL STANDARDS: United States - BUSPROG:Analytic
STATE STANDARDS: United States - AK - DISC: IMA: Reporting
KEYWORDS: Bloom's: Understand
DATE CREATED: 9/26/2018 11:22 AM
DATE MODIFIED: 1/18/2019 3:47 PM

77. The major applications of data mining have been made by companies with a strong _____ focus.

- a. wholesale
- b. manufacturing
- c. consumer
- d. research and development

Chapter 01 - Data and Statistics

ANSWER: c
POINTS: 1
DIFFICULTY: Easy
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
LEARNING OBJECTIVES: BSST.ASWC.20.01.07 - Big Data and Data Mining
NATIONAL STANDARDS: United States - BUSPROG:Analytic
STATE STANDARDS: United States - AK - DISC: IMA: Reporting
KEYWORDS: Bloom's: Understand
DATE CREATED: 9/26/2018 11:22 AM
DATE MODIFIED: 1/18/2019 3:47 PM

78. Dr. Kurt Thearling, a leading practitioner in the field, defines data mining as “the _____ extraction of _____ information from databases.”

- a. thorough, insightful
- b. timely, accurate
- c. automated, predictive
- d. intentional, useful

ANSWER: c
POINTS: 1
DIFFICULTY: Easy
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
LEARNING OBJECTIVES: BSST.ASWC.20.01.07 - Big Data and Data Mining
NATIONAL STANDARDS: United States - BUSPROG:Analytic
STATE STANDARDS: United States - AK - DISC: IMA: Reporting
KEYWORDS: Bloom's: Remember
DATE CREATED: 9/26/2018 11:22 AM
DATE MODIFIED: 1/18/2019 3:47 PM

79. Which of the following is not an example of a firm that sells or leases business database services to clients?

- a. Dun & Bradstreet
- b. Bloomberg
- c. Census Bureau
- d. Dow Jones & Co.

ANSWER: c
POINTS: 1
DIFFICULTY: Easy
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
LEARNING OBJECTIVES: BSST.ASWC.20.01.03 - Data Sources

ES:
NATIONAL STANDARDS: United States - BUSPROG: o Reflective Thinking - BUSPROG: Analytic skills: Statistics and
DS: Management Science

Chapter 01 - Data and Statistics

STATE STANDARDS: United States - AK - DISC: IMA: Reporting

KEYWORDS: Bloom's: Remember

DATE CREATED: 9/26/2018 11:22 AM

DATE MODIFIED: 1/18/2019 3:47 PM

80. Which of the following variables uses the interval scale of measurement?

- a. Standardized test score
- b. Time duration
- c. Student ID number
- d. Vehicle miles-per-gallon

ANSWER: a

POINTS: 1

DIFFICULTY: Easy

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

LEARNING OBJECTIVES: BSST.ASWC.20.01.02 - Data ES:

NATIONAL STANDARDS: United States - BUSPROG: o Reflective Thinking - BUSPROG: Analytic skills: Statistics and Management Science

STATE STANDARDS: United States - AK - DISC: IMA: Reporting

KEYWORDS: Bloom's: Understand

DATE CREATED: 9/26/2018 11:22 AM

DATE MODIFIED: 1/18/2019 3:47 PM

81. The number observations in a complete data set having 15 elements and 5 variables is

- a. 5.
- b. 10.
- c. 15.
- d. 75.

ANSWER: b

POINTS: 1

DIFFICULTY: Easy

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

LEARNING OBJECTIVES: BSST.ASWC.20.01.02 - Data

NATIONAL STANDARDS: United States - BUSPROG:Analytic

STATE STANDARDS: United States - AK - DISC: IMA: Reporting

DATE CREATED: 9/26/2018 11:22 AM

DATE MODIFIED: 1/18/2019 3:47 PM

82. Which of the following is not an example of descriptive statistics?

- a. A histogram depicting the age distribution for 30 randomly selected students
- b. An estimate of the number of Alaska residents who have visited Canada
- c. A table summarizing the data collected in a sample of new-car buyers

Chapter 01 - Data and Statistics

d. The proportion of mailed-out questionnaires that were returned

ANSWER: b
POINTS: 1
DIFFICULTY: Easy
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
LEARNING OBJECTIVES: BSST.ASWC.20.01.04 - Descriptive Statistics
NATIONAL STANDARDS: United States - BUSPROG:Analytic
STATE STANDARDS: United States - AK - DISC: Descriptive Statistics
KEYWORDS: Bloom's: Understand
DATE CREATED: 9/26/2018 11:22 AM
DATE MODIFIED: 1/18/2019 3:47 PM

83. Facts and figures that are collected, analyzed and summarized for presentation and interpretation are

- a. variables.
- b. elements.
- c. time series data.
- d. data.

ANSWER: d
POINTS: 1
DIFFICULTY: Easy
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
LEARNING OBJECTIVES: BSST.ASWC.20.01.02 - Data
NATIONAL STANDARDS: United States - BUSPROG:Analytic
STATE STANDARDS: United States - AK - DISC: IMA: Reporting
KEYWORDS: Bloom's: Remember
DATE CREATED: 9/26/2018 11:22 AM
DATE MODIFIED: 1/18/2019 3:47 PM

84. The most common type of observational study is a(n)

- a. experiment.
- b. survey.
- c. debate.
- d. statistical inference.

ANSWER: b
POINTS: 1
DIFFICULTY: Easy
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
LEARNING OBJECTIVES: BSST.ASWC.20.01.03 - Data Sources
NATIONAL STANDARDS: United States - BUSPROG:Analytic
STATE STANDARDS: United States - AK - DISC: IMA: Reporting
KEYWORDS: Bloom's: Remember

Chapter 01 - Data and Statistics

DATE CREATED: 9/26/2018 11:22 AM

DATE MODIFIED: 1/18/2019 3:47 PM

Subjective Short Answer

85. After graduation ceremonies at a university, six graduates were asked whether they were in favor of (identified by 1) or against (identified by 0) abortion. Some information about these graduates is shown below.

Graduate	Sex	Age	Abortion Issue	Class Rank
Marissa	F	24	1	1
Jason	M	22	1	2
Wendy	F	41	0	3
Edward	M	38	0	20
Jennifer	F	25	1	4
Tim	M	19	0	8

- How many elements are in the data set?
- How many variables are in the data set?
- How many observations are in the data set?
- Which of the above variables (Sex, Age, Abortion Issue, Class rank) are categorical and which are quantitative variables?
- Are arithmetic operations appropriate for the variable "abortion issue"?

ANSWER:

- 6
- 4
- 6
- Sex: categorical
Age: quantitative
Abortion Issue: categorical
Class Rank: categorical
- No

POINTS: 1

DIFFICULTY: Moderate

QUESTION TYPE: Subjective Short Answer

HAS VARIABLES: False

STUDENT ENTRY MODE Basic

:

LEARNING OBJECTIVES BSST.ASWC.20.01.02 - Data

:

NATIONAL STANDARDS: United States - BUSPROG: Analytic

STATE STANDARDS: United States - AK - DISC: IMA: Reporting

KEYWORDS: Bloom's: Understand

DATE CREATED: 9/26/2018 11:22 AM

DATE MODIFIED: 1/18/2019 3:47 PM

86. A recent issue of Fortune Magazine reported that the following companies had the lowest sales per employee among the Fortune 500 companies.

Company	Sales per Employee (In \$1,000s)	Sales Rank
Seagate Technology	42.20	285

Chapter 01 - Data and Statistics

SSMC	42.19	414
Russel	41.99	480
Maxxam	40.88	485
Dibrell Brothers	22.56	470

- How many elements are in the above data set?
- How many variables are in the above data set?
- How many observations are in the above data set?
- Name the variables and indicate whether they are categorical or quantitative.

ANSWER:

- 5
- 2
- 5
- Sales per employee: quantitative; Sales rank: categorical

POINTS: 1

DIFFICULTY: Moderate

QUESTION TYPE: Subjective Short Answer

HAS VARIABLES: False

STUDENT ENTRY MODE Basic

:

LEARNING OBJECTIVES BSST.ASWC.20.01.02 - Data

:

NATIONAL STANDARDS: United States - BUSPROG: Analytic

STATE STANDARDS: United States - AK - DISC: IMA: Reporting

KEYWORDS: Bloom's: Understand

DATE CREATED: 9/26/2018 11:22 AM

DATE MODIFIED: 1/18/2019 3:47 PM

87. The following shows the temperatures (high, low) and weather conditions on a given Sunday for some selected world cities. For the weather conditions, the following notations are used: c = clear; cl = cloudy; sh = showers; pc = partly cloudy.

City	Hi	Lo	Condition
Acapulco	99	77	pc
Bangkok	92	78	pc
Mexico City	77	57	sh
Montreal	72	56	pc
Paris	77	58	c
Rome	88	68	cl
Toronto	78	61	c

- How many elements are in this data set?
- How many variables are in this data set?
- How many observations are in this data set?
- Name the variables and indicate whether they are categorical or quantitative.
- For which variables are arithmetic operations appropriate and for which are they not appropriate?

ANSWER:

- 7
- 3
- 7
- Hi: quantitative, Lo: quantitative, Condition: categorical

Chapter 01 - Data and Statistics

e. Hi: appropriate, Lo: appropriate, Condition: not appropriate

POINTS: 1

DIFFICULTY: Moderate

QUESTION TYPE: Subjective Short Answer

HAS VARIABLES: False

STUDENT ENTRY MODE Basic

:

LEARNING OBJECTIVES BSST.ASWC.20.01.02 - Data

:

NATIONAL STANDARDS: United States - BUSPROG: Analytic

STATE STANDARDS: United States - AK - DISC: IMA: Reporting

KEYWORDS: Bloom's: Understand

DATE CREATED: 9/26/2018 11:22 AM

DATE MODIFIED: 1/18/2019 3:47 PM

88. The following data shows the yearly income distribution of a sample of 200 employees at MNM, Inc.

Yearly Income (In \$1,000s)	Number of Employees
20 - 24	2
25 - 29	48
30 - 34	60
35 - 39	80
40 - 44	10

- What percentage of employees have yearly incomes of \$35,000 or more?
- Does the figure computed in part a exemplify statistical inference? If no, what kind of statistical information does it represent?
- Based on this sample, the president of the company said that "45% of all our employees' yearly incomes are \$35,000 or more." What kind of statistical information does the president's statement represent?
- With the statement made in Part c, can we be assured that more than 45% of all employees' yearly incomes are at least \$35,000? Explain.
- What percentage of employees of the sample have yearly incomes of \$29,000 or less?
- How many variables are presented in the above data set?
- How many observation results are represented in the above data set?

ANSWER:

- 45%
- No, it is descriptive statistics.
- statistical inference
- No, this is simply an inference and approximation based on the sample information.
- 25%
- 2
- 200

POINTS: 1

DIFFICULTY: Challenging

QUESTION TYPE: Subjective Short Answer

HAS VARIABLES: False

STUDENT ENTRY Basic

Chapter 01 - Data and Statistics

MODE:

LEARNING OBJECTIVES: BSST.ASWC.20.01.02 - Data

BSST.ASWC.20.01.04 - Descriptive Statistics

BSST.ASWC.20.01.05 - Statistical Inference

NATIONAL STANDARDS: United States - BUSPROG: Analytic

ARDS:

STATE STANDARDS: United States - AK - DISC: Descriptive Statistics

United States - AK - DISC: IMA: Reporting

United States - AK - DISC: Statistical Inference

KEYWORDS: Bloom's: Apply | Bloom's: Understand

DATE CREATED: 9/26/2018 11:22 AM

DATE MODIFIED: 1/18/2019 3:47 PM

89. A recent issue of a national magazine reported that in a national public opinion survey conducted among 2,000 individuals, 56% were in favor of gun control, 40% opposed gun control, and 4% had no opinion on the subject.

- What is the sample in this survey?
- Based on the sample, what percentage of the population would you think is in favor of gun control?
- Based on the sample, what percentage of the population would you think have no opinion on the subject?

ANSWER:

- The 2000 individuals who were approached
- 56%
- 4%

POINTS: 1

DIFFICULTY: Easy

QUESTION TYPE: Subjective Short Answer

HAS VARIABLES: False

STUDENT ENTRY MODE: Basic

:

LEARNING OBJECTIVES: BSST.ASWC.20.01.05 - Statistical Inference

:

NATIONAL STANDARDS: United States - BUSPROG: Analytic

STATE STANDARDS: United States - AK - DISC: Statistical Inference

KEYWORDS: Bloom's: Understand

DATE CREATED: 9/26/2018 11:22 AM

DATE MODIFIED: 1/18/2019 3:47 PM

90. The following table shows the starting salaries of a sample of recent business graduates.

Income (In \$1,000s)	Number of Graduates
15 - 19	40
20 - 24	60
25 - 29	80
30 - 34	18
35 - 39	2

- What percentage of graduates in the sample had starting salaries of at least \$25,000?
- Of the graduates in the sample, what percentage had starting salaries of less than \$20,000?
- Based on this sample, what percentage of all business graduates do you estimate to have starting salaries of at least

Chapter 01 - Data and Statistics

\$30,000?

ANSWER:

- a. 50%
- b. 20%
- c. 10%

POINTS: 1

DIFFICULTY: Moderate

QUESTION TYPE: Subjective Short Answer

HAS VARIABLES: False

STUDENT ENTRY MODE Basic

:

LEARNING OBJECTIVES BSST.ASWC.20.01.05 - Statistical Inference

:

NATIONAL STANDARDS: United States - BUSPROG: Analytic

STATE STANDARDS: United States - AK - DISC: IMA: Reporting

KEYWORDS: Bloom's: Apply

DATE CREATED: 9/26/2018 11:22 AM

DATE MODIFIED: 1/18/2019 3:47 PM

91. Michael, Inc., a manufacturer of electric guitars, is a small firm with 50 employees. The table below shows the hourly wage distribution of the employees.

Hourly Wages (In Dollars)	Number of Employees
10 - 13	8
14 - 17	12
18 - 21	20
22 - 25	10

- a. How many employees receive hourly wages of at most \$18?
- b. What percentage of the employees have hourly wages of at least \$22?
- c. What percentage of the employees have hourly wages of less than \$14?

ANSWER:

- a. 20
- b. 20%
- c. 16%

POINTS: 1

DIFFICULTY: Moderate

QUESTION TYPE: Subjective Short Answer

HAS VARIABLES: False

STUDENT ENTRY MODE Basic

:

LEARNING OBJECTIVES BSST.ASWC.20.01.04 - Descriptive Statistics

:

NATIONAL STANDARDS: United States - BUSPROG: Analytic

STATE STANDARDS: United States - AK - DISC: Descriptive Statistics

KEYWORDS: Bloom's: Apply

Chapter 01 - Data and Statistics

DATE CREATED: 9/26/2018 11:22 AM

DATE MODIFIED: 1/18/2019 3:47 PM

92. The following information regarding the top eight Fortune 500 companies was presented in an issue of *Fortune Magazine*.

Company	Sales \$ Millions	Sales Rank	Profit \$ Millions	Profit Rank
General Motors	161,315	1	2,956	30
Ford Motor	144,416	2	22,071	2
Wal-Mart Stores	139,208	3	4,430	14
Exxon	100,697	4	6,370	5
General Electric	100,469	5	9,269	3
Int'l Business Machines	81,667	6	6,328	6
Citigroup	76,431	7	5,807	8
Philip Morris	57,813	8	5,372	9
Boeing	56,154	9	1,120	82
AT&T	53,588	10	6,398	4

- How many elements are in the above data set?
- How many variables are in this data set?
- How many observations are in this data set?
- Which variables are categorical and which are quantitative variables?
- What measurement scale is used for each variable?

ANSWER:

- 10
- 4
- 10
- Sales and Profits are quantitative
Sales Rank, and Profits Rank are categorical
- Sales: ratio
Sales Rank: ordinal
Profits: ratio
Profits Rank: ordinal

POINTS: 1

DIFFICULTY: Moderate

QUESTION TYPE: Subjective Short Answer

HAS VARIABLES: False

STUDENT ENTRY MODE Basic

:

LEARNING OBJECTIVES BSST.ASWC.20.01.02 - Data

:

NATIONAL STANDARDS: United States - BUSPROG: Analytic

STATE STANDARDS: United States - AK - DISC: IMA: Reporting

KEYWORDS: Bloom's: Understand

DATE CREATED: 9/26/2018 11:22 AM

DATE MODIFIED: 1/18/2019 3:47 PM

93. The following information regarding a sample of seven students is provided.

Chapter 01 - Data and Statistics

Student	Identification Number	Grade Point Average	Classification	Gender	Rank in Class
Adam	1234	2.89	Senior	Male	15
Brandon	8978	2.01	Junior	Male	25
Jason	6578	3.97	Freshman	Male	3
Marissa	2345	3.98	Sophomore	Female	2
Michelle	8901	2.67	Senior	Female	18
Wendy	7789	4.00	Senior	Female	1
Webster	6780	3.77	Freshman	Male	4

- How many elements are in the above data set?
- How many variables are in this data set?
- How many observations are in this data set?
- Which variables are categorical and which are quantitative variables?
- What measurement scale is used for each variable?

ANSWER:

- 7
- 5
- 7
- Grade point average is quantitative. All others are categorical.
- Identification Number: nominal
Grade Point Average: ratio
Classification: ordinal
Gender: nominal
Rank in Class: ordinal

POINTS: 1

DIFFICULTY: Moderate

QUESTION TYPE Subjective Short Answer
:

HAS VARIABLES: False

STUDENT ENTR Basic

Y MODE:

LEARNING OBJEBSST.ASWC.20.01.02 - Data
CTIVES:

NATIONAL STAN United States - BUSPROG: Analytic
DARDS:

STATE STANDAR United States - AK - DISC: IMA: Reporting
DS:

KEYWORDS: Bloom's: Understand

DATE CREATED: 9/26/2018 11:22 AM

DATE MODIFIE 1/18/2019 3:47 PM

D:

94. The following information regarding the ten richest Americans was reported in a recent issue of *Forbes*.

Name	Ranking	Worth (\$Billions)	Age	Marital Status	Source
Gates, William	1	59.0	51	married	Microsoft
Buffett, Warren	2	52.0	77	married	Berkshire Hathaway
Adelson, Sheldon	3	28.0	74	married	casinos, hotels

Chapter 01 - Data and Statistics

Ellison, L. J.	4	26.0	63	married	Oracle
Brin, Sergey	5	18.5	34	married	Google
Page, Larry	5	18.5	34	single	Google
Kerkorian, Kirk	7	18.0	90	divorced	investments, casinos
Dell, Michael	8	17.2	42	married	Dell
Koch, Charles	9	17.0	71	married	oil, commodities
Koch, David	9	17.0	67	married	oil, commodities

- How many elements are in the above data set?
- How many variables are in this data set?
- How many observations are in this data set?
- Which variables are categorical and which are quantitative?
- What measurement scale is used for each variable?

ANSWER:

- 10
- 5
- 10
- Worth and Age are quantitative
Ranking, Marital Status, and Source are categorical
- Ranking: ordinal
Worth: ratio
Age: ratio
Marital Status: nominal
Source: nominal

POINTS: 1

DIFFICULTY: Moderate

QUESTION TYPE: Subjective Short Answer

:

HAS VARIABLES: False

STUDENT ENTR Y MODE: Basic

LEARNING OBJECTIVES:

SST.ASWC.20.01.02 - Data

CTIVES:

NATIONAL STANDARDS: United States - BUSPROG: Analytic

DARDS:

STATE STANDARDS: United States - AK - DISC: IMA: Reporting

DS:

KEYWORDS: Bloom's: Understand

DATE CREATED: 9/26/2018 11:22 AM

DATE MODIFIED: 1/18/2019 3:47 PM

D:

95. The following national weather report gives the temperatures and weather conditions on the previous day in cities across the nation.

<u>City</u>	<u>Hi</u>	<u>Lo</u>	<u>Condition</u>
Albany, N.Y.	88	60	cloudy
Chicago	92	64	clear
Dallas-Ft. Worth	89	72	cloudy
Denver	75	54	clear

Chapter 01 - Data and Statistics

Hartford	88	61	cloudy
Honolulu	86	70	clear
Kansas City	93	74	clear
Los Angeles	80	62	cloudy
Nashville	94	72	rain
New York City	90	69	rain
Philadelphia	90	67	rain

- How many elements are in this data set?
- How many variables are in this data set?
- How many observations are there in the above data set?
- Which variables are categorical and which are quantitative?
- What measurement scale is used for temperature and weather conditions?

ANSWER:

- 11
- 3
- 11
- Temperature is quantitative
Weather Condition is categorical
- Temperature (Hi and Lo): interval
Weather Condition: nominal

POINTS: 1

DIFFICULTY: Moderate

QUESTION TYPE: Subjective Short Answer

HAS VARIABLES: False

STUDENT ENTRY MODE: Basic

LEARNING OBJECTIVES: BSST.ASWC.20.01.02 - Data

NATIONAL STANDARDS: United States - BUSPROG: Analytic

STATE STANDARDS: United States - AK - DISC: IMA: Reporting

KEYWORDS: Bloom's: Understand

DATE CREATED: 9/26/2018 11:22 AM

DATE MODIFIED: 1/18/2019 3:47 PM

96. The following table shows the age distribution of a sample of 180 students at a local college.

Age of Students	Number of Students
15 - 19	36
20 - 24	44
25 - 29	60
30 - 34	38
35 - 39	<u>2</u>
	Total 180

- Of the students in the sample, what percentage is younger than 30 years of age?
- What percentage is at least 20 years of age?
- Based on this sample, what percentage of the students at the college do you estimate to be younger than 20 years of age?

ANSWER: a. 77.78%

Chapter 01 - Data and Statistics

- b. 80%
- c. 20%

POINTS: 1
DIFFICULTY: Moderate
QUESTION TYPE: Subjective Short Answer
HAS VARIABLES: False
STUDENT ENTRY MODE Basic

:

LEARNING OBJECTIVES BSST.ASWC.20.01.05 - Statistical Inference

:

NATIONAL STANDARDS: United States - BUSPROG: Analytic
STATE STANDARDS: United States - AK - DISC: Statistical Inference
KEYWORDS: Bloom's: Apply
DATE CREATED: 9/26/2018 11:22 AM
DATE MODIFIED: 1/18/2019 3:47 PM

97. The highway patrol is interested in determining the average speed of automobiles traveling on I-75 between Chattanooga and Atlanta. To accomplish this task, the speed of every tenth car passing a particular point on I-75 is recorded.

- a. What is the population for this study?
- b. What constitutes the sample?
- c. Is speed a categorical or a quantitative variable?
- d. What type of measurement scale is used?

ANSWER:

- a. All the automobiles on I-75
- b. All the tenth cars
- c. quantitative
- d. ratio

POINTS: 1
DIFFICULTY: Moderate
QUESTION TYPE: Subjective Short Answer
HAS VARIABLES: False
STUDENT ENTRY MODE Basic

:

LEARNING OBJECTIVES BSST.ASWC.20.01.02 - Data

: BSST.ASWC.20.01.05 - Statistical Inference

NATIONAL STANDARDS: United States - BUSPROG: Analytic
STATE STANDARDS: United States - AK - DISC: IMA: Reporting
United States - AK - DISC: Statistical Inference
KEYWORDS: Bloom's: Understand
DATE CREATED: 9/26/2018 11:22 AM
DATE MODIFIED: 1/18/2019 3:47 PM