|  |
| --- |
| 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 | | *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 | | *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 | | *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 | |

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 10. Height is an example of a variable that uses the \_\_\_\_\_ scale.   |  |  |  | | --- | --- | --- | |  | a. | ratio | |  | b. | interval | |  | c. | nominal | |  | d. | ordinal |  |  |  | | --- | --- | | *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 | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 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 | | *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   |  |  |  | | --- | --- | --- | |  | 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 | | *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 | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 19. Quantitative data   |  |  |  | | --- | --- | --- | |  | a. | are always non-numeric. | |  | b. | may be either numeric or non-numeric. | |  | c. | are always numeric. | |  | d. | are never numeric. |  |  |  | | --- | --- | | *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 | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 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 |  |  |  | | --- | --- | | *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 | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 21. The number of observations will always be the same as the   |  |  |  | | --- | --- | --- | |  | a. | number of variables. | |  | b. | number of elements. | |  | 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 | | *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 | | *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 | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 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. |  |  |  | | --- | --- | | *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 | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 28. Arithmetic operations are inappropriate for   |  |  |  | | --- | --- | --- | |  | a. | categorical data. | |  | b. | quantitative data. | |  | c. | both categorical and quantitative data. | |  | d. | large data sets. |  |  |  | | --- | --- | | *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 | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 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 | | *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.   |  |  |  | | --- | --- | --- | |  | 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 | | *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 | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 37. A portion selected to represent the whole is called a   |  |  |  | | --- | --- | --- | |  | a. | survey. | |  | b. | population. | |  | c. | census. | |  | d. | sample. |  |  |  | | --- | --- | | *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 | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 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. |  |  |  | | --- | --- | | *ANSWER:* | d | | *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 | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 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. | |  | 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 | | *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 | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 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 |  |  |  | | --- | --- | | *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 | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 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. |  |  |  | | --- | --- | | *ANSWER:* | a | | *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 | |

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 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 |  |  |  | | --- | --- | | *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 | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 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 |  |  |  | | --- | --- | | *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 | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 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 | | *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. | |  | 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 | | *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 | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 65. On a street, the houses are numbered from 300 to 450. The house numbers are examples of \_\_\_\_\_ data.   |  |  |  | | --- | --- | --- | |  | a. | categorical | |  | b. | quantitative | |  | c. | both quantitative and categorical | |  | d. | neither quantitative nor categorical |  |  |  | | --- | --- | | *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 | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 66. A survey to collect data on the entire population is a(n)   |  |  |  | | --- | --- | --- | |  | a. | census. | |  | b. | sample. | |  | c. | population. | |  | d. | inference. |  |  |  | | --- | --- | | *ANSWER:* | a | | *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 | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 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. | a sample. | |  | b. | descriptive 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 | | *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 | |  | 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 | | *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 |  |  |  | | --- | --- | | *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 | | *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: 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 | | *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 | |  | 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 | | *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 |   ​   |  |  | | --- | --- | | a. | How many elements are in the data set? | | b. | How many variables are in the data set? | | c. | How many observations are in the data set? | | d. | Which of the above variables (Sex, Age, Abortion Issue, Class rank) are categorical and which are quantitative variables? | | e. | Are arithmetic operations appropriate for the variable "abortion issue"? |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | *ANSWER:* | |  |  | | --- | --- | | a. | 6 | | b. | 4 | | c. | 6 | | d. | Sex: categorical | |  | Age: quantitative | |  | Abortion Issue: categorical | |  | Class Rank: categorical | | e. | 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.   |  |  |  | | --- | --- | --- | |  | **Sales per Employee (In $1,000s)** | **Sales Rank** | | **Company** | | Seagate Technology | 42.20 | 285 | | SSMC | 42.19 | 414 | | Russel | 41.99 | 480 | | Maxxam | 40.88 | 485 | | Dibrell Brothers | 22.56 | 470 |   ​   |  |  | | --- | --- | | a. | How many elements are in the above data set? | | b. | How many variables are in the above data set? | | c. | How many observations are in the above data set? | | d. | Name the variables and indicate whether they are categorical or quantitative. |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | *ANSWER:* | |  |  | | --- | --- | | a. | 5 | | b. | 2 | | c. | 5 | | d. | 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 |   ​   |  |  | | --- | --- | | a. | How many elements are in this data set? | | b. | How many variables are in this data set? | | c. | How many observations are in this data set? | | d. | Name the variables and indicate whether they are categorical or quantitative. | | e. | For which variables are arithmetic operations appropriate and for which are they not appropriate? |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | *ANSWER:* | |  |  | | --- | --- | | a. | 7 | | b. | 3 | | c. | 7 | | d. | Hi: quantitative, Lo: quantitative, Condition: categorical | | 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 |   ​   |  |  | | --- | --- | | a. | What percentage of employees have yearly incomes of $35,000 or more? | | b. | Does the figure computed in part a exemplify statistical inference? If no, what kind of statistical information does it represent? | | c. | 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? | | d. | 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. | | e. | What percentage of employees of the sample have yearly incomes of $29,000 or less? | | f. | How many variables are presented in the above data set? | | g. | How many observation results are represented in the above data set? |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | *ANSWER:* | |  |  | | --- | --- | | a. | 45% | | b. | No, it is descriptive statistics. | | c. | statistical inference | | d. | No, this is simply an inference and approximation based on the sample information. | | e. | 25% | | f. | 2 | | g. | 200 | | | *POINTS:* | 1 | | *DIFFICULTY:* | Challenging | | *QUESTION TYPE:* | Subjective Short Answer | | *HAS VARIABLES:* | False | | *STUDENT ENTRY MODE:* | Basic | | *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 | | *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.   |  |  | | --- | --- | | a. | What is the sample in this survey? | | b. | Based on the sample, what percentage of the population would you think is in favor of gun control? | | c. | Based on the sample, what percentage of the population would you think have no opinion on the subject? |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | *ANSWER:* | |  |  | | --- | --- | | a. | The 2000 individuals who were approached | | b. | 56% | | c. | 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 |   ​   |  |  | | --- | --- | | a. | What percentage of graduates in the sample had starting salaries of at least $25,000? | | b. | Of the graduates in the sample, what percentage had starting salaries of less than $20,000? | | c. | Based on this sample, what percentage of all business graduates do you estimate to have starting salaries of at least $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 | | *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*.   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | **Sales** **$ Millions** | **Sales Rank** | **Profit $ Millions** | **Profit Rank** | | **Company** | | 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 |   ​   |  |  | | --- | --- | | a. | How many elements are in the above data set? | | b. | How many variables are in this data set? | | c. | How many observations are in this data set? | | d. | Which variables are categorical and which are quantitative variables? | | e. | What measurement scale is used for each variable? |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | *ANSWER:* | |  |  | | --- | --- | | a. | 10 | | b. | 4 | | c. | 10 | | d. | Sales and Profits are quantitative | |  | Sales Rank, and Profits Rank are categorical | | e. | 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.   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | ​  **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 |   ​   |  |  | | --- | --- | | a. | How many elements are in the above data set? | | b. | How many variables are in this data set? | | c. | How many observations are in this data set? | | d. | Which variables are categorical and which are quantitative variables? | | e. | What measurement scale is used for each variable? |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | *ANSWER:* | |  |  |  | | --- | --- | --- | | a. | 7 | | | b. | 5 | | | c. | 7 | | | d. | Grade point average is quantitative. All others are categorical. | | | e. | 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 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 | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 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 | | 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 |   ​   |  |  | | --- | --- | | a. | How many elements are in the above data set? | | b. | How many variables are in this data set? | | c. | How many observations are in this data set? | | d. | Which variables are categorical and which are quantitative? | | e. | What measurement scale is used for each variable? |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | *ANSWER:* | |  |  |  | | --- | --- | --- | | a. | 10 | | | b. | 5 | | | c. | 10 | | | d. | Worth and Age are quantitative | | |  | Ranking, Marital Status, and Source are categorical | | | e. | Ranking: ordinal | | |  | Worth: ratio |  | |  | Age: ratio | | |  | Marital Status: nominal | | |  | Source: 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 | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 95. The following national weather report gives the temperatures and weather conditions on the previous day in cities across the nation.   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | City | Hi | Lo | Condition | |  | Albany, N.Y. | 88 | 60 | cloudy | |  | Chicago | 92 | 64 | clear | |  | Dallas-Ft.Worth | 89 | 72 | cloudy | |  | Denver | 75 | 54 | clear | |  | 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 |   ​   |  |  | | --- | --- | | a. | How many elements are in this data set? | | b. | How many variables are in this data set? | | c. | How many observations are there in the above data set? | | d. | Which variables are categorical and which are quantitative? | | e. | What measurement scale is used for temperature and weather conditions? |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | *ANSWER:* | |  |  | | --- | --- | | a. | 11 | | b. | 3 | | c. | 11 | | d. | Temperature is quantitative | |  | Weather Condition is categorical | | e. | 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 | 2 | |  | Total | 180 |   ​   |  |  | | --- | --- | | a. | Of the students in the sample, what percentage is younger than 30 years of age? | | b. | What percentage is at least 20 years of age? | | c. | 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% | | 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 | |