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/test-bank-statistics-for-people-who-think-they-hate-statistics-freesal Resource
Salkind, Statistics for People Who (Think They) Hate Statistics, 7e
SAGE Publishing, 2020

Chapter 1: Statistics or Sadistics? It's Up to You

Test Bank

Multiple Choice

- 1. When humans first realized that counting was a good idea, which of the following became a useful skill for people to have?
- a. knowing the alphabet
- b. asking questions
- c. collecting information
- d. making decisions

Ans: C

KEY: Learning Objective: 1.1: What statistics is all about.

REF: Cognitive Domain: Knowledge

Answer Location: A 5-Minute History of Statistics

Difficulty Level: Easy

- 2. Once numbers became part of the human language, the next step was to attach
- a. numbers to outcomes
- b. numbers to letters
- c. numbers to places
- d. numbers to time

Ans: A

KEY: Learning Objective: 1.1: What statistics is all about.

REF: Cognitive Domain: Knowledge

Answer Location: A 5-Minute History of Statistics

Difficulty Level: Easy

- 3. After the first set of data having to do with populations was collected during the 17th century, scientists needed to develop _____.
- a. general tools to answer general questions
- b. general tools to answer specific questions
- c. specific tools to answer general questions
- d. specific tools to answer specific questions

Ans: D

KEY: Learning Objective: 1.1: What statistics is all about.

REF: Cognitive Domain: Knowledge

Answer Location: A 5-Minute History of Statistics

Difficulty Level: Easy

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4. Which of the following is one of the most popular and powerful analytic tools available today?

- a. SPSS
- b. Microsoft Word
- c. Mini Tab
- d. Excel Ans: A

KEY: Learning Objective: 1.2: Why you should take statistics.

REF: Cognitive Domain: Knowledge Answer Location: And Why SPSS

Difficulty Level: Easy

- 5. Today, statisticians in many different professional areas find themselves using _____ techniques to answer different questions.
- a. varied
- b. the same
- c. new
- d. experimental

Ans: B

KEY: Learning Objective: 1.2: Why you should take statistics.

REF: Cognitive Domain: Knowledge

Answer Location: A 5-Minute History of Statistics

Difficulty Level: Easy

- 6. Statistics describes a set of _____ that are used for describing, organizing, and interpreting information.
- a. statements
- b. rules and exceptions
- c. tools and techniques
- d. numbers and letters

Ans: C

KEY: Learning Objective: 1.1: What statistics is all about.

REF: Cognitive Domain: Knowledge

Answer Location: Statistics: What It Is (and Isn't)

Difficulty Level: Easy

- 7. What type of statistics involves collecting, organizing, and summarizing data?
- a. experimental
- b. descriptive
- c. inferential
- d. organizational

Ans: B

KEY: Learning Objective: 1.1: What statistics is all about.

REF: Cognitive Domain: Knowledge

Answer Location: What Are Descriptive Statistics?

Difficulty Level: Easy

8. Inferential statistics involve the data. a. organizing b. balancing c. editing d. interpreting Ans: D KEY: Learning Objective: 1.1: What statistics is all about. REF: Cognitive Domain: Comprehension Answer Location: What Are Inferential Statistics? Difficulty Level: Easy
9. The type of descriptive statistic that tells you the most popular or most frequent choice from a selection of choices is the a. median b. mode c. mean d. average Ans: B KEY: Learning Objective: 1.1: What statistics is all about. REF: Cognitive Domain: Knowledge Answer Location: What Are Descriptive Statistics? Difficulty Level: Easy
10. What type of descriptive statistic is also referred to as the average? a. mean b. median c. mode d. descriptor Ans: A KEY: Learning Objective: 1.1: What statistics is all about. REF: Cognitive Domain: Knowledge Answer Location: What Are Descriptive Statistics? Difficulty Level: Easy
11 statistics are often (but not always) the next step after you have some basis understanding of data. a. Descriptive b. Inferential c. Experimental d. Observational Ans: B KEY: Learning Objective: 1.1: What statistics is all about. REF: Cognitive Domain: Knowledge Answer Location: What Are Inferential Statistics? Difficulty Level: Easy

12 is to a smaller group of data as population is to a larger group of data. a. Micro group b. Mini group c. Micro data d. Sample Ans: D KEY: Learning Objective: 1.1: What statistics is all about. REF: Cognitive Domain: Comprehension Answer Location: What Are Inferential Statistics? Difficulty Level: Medium
13. Descriptive and inferential statistics work cooperatively, and which one you use and when depends on a. the question you want answered b. the methods you choose for investigation c. the sample you select d. the population you choose Ans: A KEY: Learning Objective: 1.3: How to succeed in this course. REF: Cognitive Domain: Knowledge Answer Location: In Other Words Difficulty Level: Easy
14. The term used to describe the science of organizing and analyzing information to make the information more easily understood is a. analysis b. data c. statistics d. interpretation Ans: C KEY: Learning Objective: 1.1: What statistics is all about. REF: Cognitive Domain: Knowledge Answer Location: Statistics: What It Is (and Isn't) Difficulty Level: Easy
15. Which of the following individuals used statistical methods during the 17th century to study the intelligence of his family members? a. Charles Darwin b. Francis Galton c. Isaac Newton d. Alfred Binet Ans: B KEY: Learning Objective: 1.1: What statistics is all about. REF: Cognitive Domain: Knowledge Answer Location: A 5-Minute History of Statistics

Difficulty	Level:	Easy
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- 16. Which of the following would be used to designate the type of statistical methods used to organize and describe the characteristics of a collection of data?
- a. inferential statistics
- b. descriptive statistics
- c. sampling methods
- d. population methods

Ans: B

KEY: Learning Objective: 1.1: What statistics is all about.

REF: Cognitive Domain: Knowledge

Answer Location: What Are Descriptive Statistics?

Difficulty Level: Easy

- 17. In which century did the first collection of a set of data pertaining to populations occur?
- a. 15th century
- b. 17th century
- c. 19th century
- d. 21st century

Ans: B

KEY: Learning Objective: 1.1: What statistics is all about.

REF: Cognitive Domain: Knowledge

Answer Location: A 5-Minute History of Statistics

Difficulty Level: Easy

- 18. Who popularized the use of the correlation coefficient?
- a. Charles Darwin
- b. Neil Salkind
- c. Francis Galton
- d. R. A. Fisher

Ans: C

KEY: Learning Objective: 1.1: What statistics is all about.

REF: Cognitive Domain: Knowledge

Answer Location: A 5-Minute History of Statistics

Difficulty Level: Easy

- 19. The term used to define a set of tools and techniques describing, organizing, and interpreting data is _____.
- a. inference
- b. population
- c. sample
- d. statistics

Ans: D

KEY: Learning Objective: 1.1: What statistics is all about.

REF: Cognitive Domain: Knowledge

Answer Location: Statistics: What It Is (and Isn't)

Difficulty Level: Easy

- 20. Your professor tells you, "If you don't start with reliable data, you'll end up with unreliable results." You interpret this to mean which of the following?
- a. A bird in the hand is worth two in the bush.
- b. A watched pot never boils.
- c. Don't cry over spilt milk.
- d. Garbage in, garbage out.

Ans: D

KEY: Learning Objective: 1.3: How to succeed in this course.

REF: Cognitive Domain: Comprehension

Answer Location: A 5-Minute History of Statistics

Difficulty Level: Easy

- 21. What will you need to complete most statistical analyses?
- a. a personal computer
- b. large computer mainframe
- c. a slide rule
- d. a highly trained technician

Ans: A

KEY: Learning Objective: 1.3: How to succeed in this course.

REF: Cognitive Domain: Knowledge

Answer Location: A 5-Minute History of Statistics

Difficulty Level: Easy

- 22. When was the simplest test for examining differences between two groups first advanced?
- a. 17th century
- b. 18th century
- c. 19th century
- d. 20th century

Ans: D

KEY: Learning Objective: 1.1: What statistics is all about.

REF: Cognitive Domain: Knowledge

Answer Location: A 5-Minute History of Statistics

Difficulty Level: Easy

- 23. Inferential statistics is most often used for which of the following?
- a. summarizing data
- b. organizing data
- c. interpreting data
- d. collecting data

Ans: C

KEY: Learning Objective: 1.1: What statistics is all about.

REF: Cognitive Domain: Knowledge

Answer Location: What Are Inferential Statistics?

Difficulty Level: Easy

- 24. All but which of the following is a use of descriptive statistics?
- a. organizing data
- b. interpreting data
- c. summarizing data
- d. collecting data

Ans: B

KEY: Learning Objective: 1.1: What statistics is all about.

REF: Cognitive Domain: Knowledge

Answer Location: What Are Descriptive Statistics?

Difficulty Level: Easy

- 25. What type of statistics is used to organize and describe the characteristics of a collection of data?
- a. inferential
- b. descriptive
- c. ordinal
- d. nominal

Ans: B

KEY: Learning Objective: 1.1: What statistics is all about.

REF: Cognitive Domain: Knowledge

Answer Location: What Are Descriptive Statistics?

Difficulty Level: Easy

- 26. A collection of information is also called .
- a. population subset
- b. sample statistic
- c. descriptive statistic
- d. data set

Ans: D

KEY: Learning Objective: 1.1: What statistics is all about.

REF: Cognitive Domain: Knowledge

Answer Location: What Are Descriptive Statistics?

Difficulty Level: Easy

- 27. Descriptive measures are most often used _____
- a. to describe how often something occurs
- b. to determine if a sample is representative of a population
- c. to predict an outcome
- d. to determine the effect of an intervention

Ans: A

KEY: Learning Objective: 1.1: What statistics is all about.

REF: Cognitive Domain: Knowledge

Answer Location: What Are Descriptive Statistics?

Difficulty Level: Medium

28. How are inferential statistics most often used?

a. to infer to the quality of data collected

b. to organize and describe data

c. to make inferences from the sample to the population

d. to plot the data

Ans: C

KEY: Learning Objective: 1.1: What statistics is all about.

REF: Cognitive Domain: Knowledge

Answer Location: What Are Inferential Statistics?

Difficulty Level: Easy

- 29. What is the small subset of the population from whom you collect data called?
- a. population
- b. sample
- c. database
- d. group A

Ans: B

KEY: Learning Objective: 1.1: What statistics is all about.

REF: Cognitive Domain: Knowledge

Answer Location: What Are Inferential Statistics?

Difficulty Level: Easy

- 30. The larger group from which a sample is drawn is ...
- a. sample group
- b. population
- c. median
- d. mode

Ans: B

KEY: Learning Objective: 1.1: What statistics is all about.

REF: Cognitive Domain: Knowledge

Answer Location: What Are Inferential Statistics?

Difficulty Level: Easy

- 31. What type of statistics employs the use of sample data that is used to infer information about the population?
- a. descriptive statistics
- b. ordinal statistics
- c. nominal statistics
- d. inferential statistics

Ans: D

KEY: Learning Objective: 1.1: What statistics is all about.

REF: Cognitive Domain: Knowledge

Answer Location: What Are Inferential Statistics?

Difficulty Level: Easy

32. When should inferential statistics typically be used? a. before descriptive statistics b. after descriptive statistics c. at the same time as descriptive statistics d. never with descriptive statistics Ans: B KEY: Learning Objective: 1.1: What statistics is all about. REF: Cognitive Domain: Knowledge Answer Location: What Are Inferential Statistics? Difficulty Level: Easy
33. If you calculate the average age of everyone in your class, what type of statistics will you have? a. inferential b. mode c. median d. descriptive Ans: D KEY: Learning Objective: 1.1: What statistics is all about. REF: Cognitive Domain: Comprehension Answer Location: What Are Descriptive Statistics? Difficulty Level: Easy
34. A common goal in statistics is to a. generalize results from a sample to a population b. generalize results from a population to a sample c. generalize results from a population to a second population d. generalize results from a sample to a second sample Ans: A KEY: Learning Objective: 1.1: What statistics is all about. REF: Cognitive Domain: Comprehension Answer Location: What Are Inferential Statistics? Difficulty Level: Easy
35. A knowledge of statistics helps us make decisions based on evidence. a. logical b. unobserved c. possible d. empirical Ans: D KEY: Learning Objective: 1.1: What statistics is all about. REF: Cognitive Domain: Knowledge Answer Location: In Other Words Difficulty Level: Medium

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36. Don't skip lessons—work through the chapters in sequence because a. each chapter is important b. each chapter is full of information c. each chapter provides a foundation for the next chapter d. each chapter is useful Ans: C KEY: Learning Objective: 1.3: How to succeed in this course. REF: Cognitive Domain: Comprehension Answer Location: Ten Ways to Use This Book Difficulty Level: Easy
37. According to the author, when you have completed the course, you may want to do which of the following? a. sell the book b. use the book as a reference c. continue doing book exercises d. do not sell the book Ans: B KEY: Learning Objective: 1.3: How to succeed in this course REF: Cognitive Domain: Comprehension Answer Location: Ten Ways to Use This Book Difficulty Level: Easy
38. To ensure some success in doing well in this course you are wise to a. form a study group b. take notes c. talk to your friends d. look up in dictionary Ans: A KEY: Learning Objective: 1.3: How to succeed in this course REF: Cognitive Domain: Comprehension Answer Location: Ten Ways to Use This Book Difficulty Level: Easy
39. If you do not understand what you are being taught in class, a. ask your professors first b. ask your friends first c. read your book first d. think about it first Ans: A KEY: Learning Objective: 1.3: How to succeed in this course REF: Cognitive Domain: Comprehension Answer Location: Ten Ways to Use This Book Difficulty Level: Easy
40. The best way to learn statistics is to

a. ask lots of questions

b. think a lot

c. practice a lot

d. read a lot

Ans: C

KEY: Learning Objective: 1.3: How to succeed in this course

REF: Cognitive Domain: Comprehension Answer Location: Ten Ways to Use This Book

Difficulty Level: Easy

True/False

1. Most of the basic statistical procedures were first developed and used in other fields and used to study human behavior much later.

Ans: T

KEY: Learning Objective: 1.1: What statistics is all about

REF: Cognitive Domain: Knowledge

Answer Location: A 5-Minute History of Statistics

Difficulty Level: Easy

2. The past 100 years have seen numerous examples of new ways to use old ideas.

Ans: T

KEY: Learning Objective: 1.1: What statistics is all about

REF: Cognitive Domain: Knowledge

Answer Location: A 5-Minute History of Statistics

Difficulty Level: Easy

3. Generally, although sometimes called different things, the same statistics are used in most disciplines.

Ans: T

KEY: Learning Objective: 1.2: Why you should take statistics.

REF: Cognitive Domain: Knowledge

Answer Location: A 5-Minute History of Statistics

Difficulty Level: Easy

4. A population can be considered a selection of the occurrences with certain characteristics.

Ans: F

KEY: Learning Objective: 1.1: What statistics is all about.

REF: Cognitive Domain: Knowledge

Answer Location: What Are Inferential Statistics?

Difficulty Level: Medium

5. Not all members of a sample are members of the population.

Ans: F

KEY: Learning Objective: 1.1: What statistics is all about.

REF: Cognitive Domain: Comprehension

Answer Location: What Are Inferential Statistics?

Difficulty Level: Medium

Short Answer

1. The introduction of personal computers and their use in statistical analyses have been both good and bad. Give an example of a "good" reason and one example of a "bad" reason.

Ans: GOOD: Most statistical analyses no longer require access to a huge and expensive mainframe computer; a simple computer, typically costing less than \$500, can do most of what's needed. BAD: Less-than-adequately-educated students will take available data and think that by running those data through a sophisticated analysis they will have reliable, trustworthy, and meaningful outcomes when they do not.

Ans: Examples should reflect knowledge demonstrated in passage above.

KEY: Learning Objective: 1.2: Why you should take statistics.

REF: Cognitive Domain: Application

Answer Location: A 5-Minute History of Statistics

Difficulty Level: Medium

2. The study of statistics can be intimidating, but it can also be rewarding. Describe at least two benefits to your life as a student by engaging in the study of statistics.

Ans: Varies

KEY: Learning Objective: 1.2: Why you should take statistics.

REF: Cognitive Domain: Application Answer Location: Why Statistics?

Difficulty Level: Easy

3. Define descriptive statistics.

Ans: Descriptive statistics are used to organize and describe the characteristics of a collection of data.

KEY: Learning Objective: 1.1: What statistics is all about.

REF: Cognitive Domain: Knowledge

Answer Location: What Are Descriptive Statistics?

Difficulty Level: Medium

4. Define *inferential statistics*.

Ans: Inferential statistics are used to make inferences from a smaller group of data (the sample) to the larger group (population).

KEY: Learning Objective: 1.1: What statistics is all about.

REF: Cognitive Domain: Knowledge

Answer Location: What Are Inferential Statistics?

Difficulty Level: Medium

5. What is the difference between descriptive and inferential statistics?

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Ans: Descriptive statistics organize and describe data, while inferential statistics are used to infer meaning about a larger population from a sample of the population.

KEY: Learning Objective: 1.1: What statistics is all about.

REF: Cognitive Domain: Analysis

Answer Location: What Are Descriptive Statistics? | What Are Inferential Statistics?

Difficulty Level: Medium