

1. Choose the answer below that best completes the following statement.

A _____ is a number that describes a population.
A) parameter B) sample C) statistic D) summary

2. In statistics, a population consists of:

A) All People living in a country
B) All People living in the are under study
C) Sample who are involved in the study
D) None of the above

3. Determine which of the following describes quantitative data.

i). the name of a chemical sample
ii). the mass of a chemical sample
iii). the color of a chemical sample

A) i only B) i and ii only C) ii only D) i, ii, and iii

4. Determine which of the following describes quantitative data.

i). the length of an object in feet
ii). the speed of an object in meters per second
iii). the number of objects that are blue

A) i only B) i and ii only C) iii only D) i, ii, and iii

5. Determine which of the following describes qualitative data.

i). the volume of a shipping container, in gallons
ii). the name of the material from which the container is made
iii). the shape of the container

A) i and iii only B) i and ii only C) ii and iii only D) i, ii, and iii

6. Determine which of the following describes nominal data.

i. My favorite days of the week are Friday, Saturday, and Tuesday.
ii. My favorite day of the week is Friday, my second-favorite is Saturday, and third-favorite is Tuesday.

A) i only B) ii only C) both i and ii D) neither i nor ii

7. Determine which of the following describes ordinal data.

i. My best friends are Max, Amithaba, and Wayne.
ii. My favorite numbers are 2, 7 and 13.

A) i only B) ii only C) both i and ii D) neither i nor ii

8. Which one of the following data are discrete?

A) the height of the tallest player on Duke University's men's basketball team
B) the pre-season ranking of Duke University's men's basketball team
C) the average weight of players on the University of Connecticut's women's basketball team
D) the average preseason ranking of the University of Connecticut's women's basketball team over the past 10 years

9. When rolling two six-sided dice, your total roll ranges from 2 (double ones) to 12 (double sixes). Characterize the nature of the roll total.

A) qualitative and continuous C) qualitative and discrete
B) quantitative and continuous D) quantitative and discrete

10. In inferential statistics, we study

A) the methods to make decisions about population based on sample results.
B) how to make decisions about mean, median, or mode
C) how a sample is obtained from a population
D) None of the above

Extra:

Outlook	Temperature	Humidity	Windy	Play
Sunny	85	85	False	No
Sunny	80	90	True	No
Overcast	83	86	False	Yes
Rainy	75	96	False	Yes
Rainy	68	80	False	Yes
Rainy	65	70	True	No
Overcast	64	65	True	Yes
Sunny	72	95	False	No
Sunny	69	70	False	Yes
Rainy	75	80	False	Yes
Sunny	75	70	True	Yes
Overcast	72	90	True	Yes
Overcast	81	75	False	Yes
Rainy	71	91	True	No

1. State the all the quantitative variables

2. State the type of scale for ^{for}Temperature.

3. State the type of variable for Play.

4. If all "Rainy" (Outlook) are selected, compute the mean in Humidity variable.

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B Lingard



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1. Understanding the eBook Elementary Statistics Practice Test Chapter 1
 - The Rise of Digital Reading Elementary Statistics Practice Test Chapter 1
 - Advantages of eBooks Over Traditional Books
2. Identifying Elementary Statistics Practice Test Chapter 1
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Elementary Statistics Practice Test Chapter 1
 - User-Friendly Interface
4. Exploring eBook Recommendations from Elementary Statistics Practice Test Chapter 1
 - Personalized Recommendations
 - Elementary Statistics Practice Test Chapter 1 User Reviews and Ratings
 - Elementary Statistics Practice Test Chapter 1 and Bestseller Lists

5. Accessing Elementary Statistics Practice Test Chapter 1 Free and Paid eBooks
 - Elementary Statistics Practice Test Chapter 1 Public Domain eBooks
 - Elementary Statistics Practice Test Chapter 1 eBook Subscription Services
 - Elementary Statistics Practice Test Chapter 1 Budget-Friendly Options
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 - ePub, PDF, MOBI, and More
 - Elementary Statistics Practice Test Chapter 1 Compatibility with Devices
 - Elementary Statistics Practice Test Chapter 1 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Elementary Statistics Practice Test Chapter 1
 - Highlighting and Note-Taking Elementary Statistics Practice Test Chapter 1
 - Interactive Elements Elementary Statistics Practice Test Chapter 1
8. Staying Engaged with Elementary Statistics Practice Test Chapter 1
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Elementary Statistics Practice Test Chapter 1
9. Balancing eBooks and Physical Books Elementary Statistics Practice Test Chapter 1
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Elementary Statistics Practice Test Chapter 1
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Elementary Statistics Practice Test Chapter 1
 - Setting Reading Goals Elementary Statistics Practice Test Chapter 1
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Elementary Statistics Practice Test Chapter 1
 - Fact-Checking eBook Content of Elementary Statistics Practice Test Chapter 1
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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