

Algebra 2 Unit 12: Statistical Notes

Variability and Sampling

Data is everywhere. In its rawest form, it's in our science classes, it shows up in economics, statistics and anywhere else that variability occurs. Variability is simply the property of outcomes being different. The tools of statistics are designed to explain this variability. There are many types of variability. It is good to understand these various tools in order to understand their strengths and weaknesses.

Example 1 The following types of variability can change randomly in a data set, but each gives us insight into our world.

- (1) **Observational or Measurement Variability:** Variability that is introduced due to either our measuring instruments not being precise enough or differences in how individual people read the measurement.

2 students measure time for a ball to roll down a ramp
→ different reaction times

- (2) **Human Variability or Human-Induced Variability:** Variability that occurs due to the fact that members of populations are simply different.

2 people work out same amount of time
→ different people use different amounts of weight

- (3) **Random Variability:** This type of variability is the result of noise and error. It can be because our tools assigned our populations or samples to two or more treatment groups and then observing the variability between the groups.

2 groups taking a test, one group allowed to sleep 8 hours, other group only 4 hours → different scores

- (4) **Sample Variability:** This is the type of variability that occurs when we take multiple samples. There is population variability. There is going to still be difference due to the variability of the samples or means.

Multiple samples of people surveyed to determine political candidate preference

Remember, through all of our work in this unit, we are really trying to explain the variability of data within either a population or a sample and then using this to determine if the variability can be attributed to one of the factors above or the variability of the others.

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Table of Contents Emathinstruction Unit 1answer Key

1. Understanding the eBook Emathinstruction Unit 1answer Key
 - The Rise of Digital Reading Emathinstruction Unit 1answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Emathinstruction Unit 1answer Key
 - 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 Emathinstruction Unit 1answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Emathinstruction Unit 1answer Key
 - Personalized Recommendations
 - Emathinstruction Unit 1answer Key User Reviews and Ratings
 - Emathinstruction Unit 1answer Key and Bestseller Lists
5. Accessing Emathinstruction Unit 1answer Key Free and Paid eBooks
 - Emathinstruction Unit 1answer Key Public Domain eBooks
 - Emathinstruction Unit 1answer Key eBook Subscription Services
 - Emathinstruction Unit 1answer Key Budget-Friendly Options
6. Navigating Emathinstruction Unit 1answer Key eBook Formats

- ePub, PDF, MOBI, and More
 - Emathinstruction Unit 1answer Key Compatibility with Devices
 - Emathinstruction Unit 1answer Key Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Emathinstruction Unit 1answer Key
 - Highlighting and Note-Taking Emathinstruction Unit 1answer Key
 - Interactive Elements Emathinstruction Unit 1answer Key
8. Staying Engaged with Emathinstruction Unit 1answer Key
- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Emathinstruction Unit 1answer Key
9. Balancing eBooks and Physical Books Emathinstruction Unit 1answer Key
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Emathinstruction Unit 1answer Key
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Emathinstruction Unit 1answer Key
- Setting Reading Goals Emathinstruction Unit 1answer Key
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Emathinstruction Unit 1answer Key
- Fact-Checking eBook Content of Emathinstruction Unit 1answer Key
 - 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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