

## Variability and Sampling

Data is everywhere. In its rawest form, it's in our science classes, it shows up in economics, statistics and everywhere 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 in analyzing.

**Example 1** The following types of variability can change variability of a data set. For each, give an example that may hold.

- (a) **Observational or observational variability:** Variability that is introduced due to either our measuring instruments not being precise enough or differences in how the different people read the measurements.

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

- (b) **Measured 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

- (c) **Designed Variability:** This type of variability is the result of some deliberate action. It can be because we have assigned our populations or samples to two or more treatment groups and then observe the variability between the groups.

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

- (d) **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 book, 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.

# Emathinstruction Unit 8 Answer Key

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## Whispering the Techniques of Language: An Psychological Journey through **Emathinstruction Unit 8 Answer Key**

In a digitally-driven world wherever screens reign great and instant communication drowns out the subtleties of language, the profound secrets and emotional nuances concealed within words often go unheard. Yet, situated within the pages of **Emathinstruction Unit 8 Answer Key** a charming fictional prize blinking with fresh feelings, lies an extraordinary journey waiting to be undertaken. Penned by a talented wordsmith, that wonderful opus encourages readers on an introspective journey, softly unraveling the veiled truths and profound impact resonating within the very cloth of each and every word. Within the mental depths of this emotional review, we shall embark upon a genuine exploration of the book is core subjects, dissect their fascinating writing type, and yield to the strong resonance it evokes deep within the recesses of readers hearts.

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