Algebra 2 Unit 13: Statistics Notes

Variability and Sampling

Data is everywhere. It's in our newspapers, it's in our science classes, it shows up in economics, medicine and anywhere that has variability in it. Variability is simply the property of outcomes being different. The tools of statistics are designed to explore this variability. There are many types of variability. It is good to understand these sources in order to minimize the ones that we are not studying.

Example 1:   The following types of variability can change outcomes of a data set. For each, give an example from any field.

(a) **Observational or Measurement Variability:** Variability that is introduced due to either not measuring observations and being precise enough, or deterioration in how two different people read the measurement.

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

(b) **Natural Variability or Inter-Individual Variability:** Variability that accounts for the fact that members of populations are simply different.

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

(c) **Induced Variability:** This type of variability is introduced into an experiment from an experiment when subjects are assigned into populations or sample to try at most 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 from a population at random. These samples will be different due to the randomness of the samples they are.

multiple samples of people surveyed to determine
political candidate preference

Remember, though 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 randomness of the data.

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web coordinates of v the standard coordinates are v 3 are the b 1 b are assumed if no other basis is speci ed this means v 3e1 4e2 4 5 2 if b fv1 v2 vng is a basis of rn then the matrix s which contains the vectors vk as column vectors is called the coordinate change matrix

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