

## 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 variability of a data set. For each, give an example that may hold.

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

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

- (b) **Natural Variability or Inherent Individual 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) **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 tests

- (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 errors.

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.

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**Hussin A.Rothana**



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function and the constraints graph the constraints shade the feasibility region label all critical points and determine the  
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to solve a linear programming problem we first need to know the fundamental theorem of linear programming given that an optimal solution to a linear programming problem exists it must occur at a vertex of the feasible set if the optimal solution occurs at two adjacent vertices of the feasible set then the linear programming problem

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exercise 9 an optimal control problem with an analytical solution we consider the problem of maximizing a linear function of the final state of a linear system subject to bounds on the inputs maximize  $\text{dtx } n$  subject to  $u \leq u^{\text{max}}$   $u \geq 0$   $n = 1 \dots n_p$   $1 \leq t \leq T$   $u^{\text{max}} \leq \alpha$  where  $x$  and  $u$  are related via the recursion  $x(t+1) = Ax(t) + Bu(t)$

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2018 2019 exercise 3 determine using the simplex algorithm with bland's rule the optimal solution to the following linear programming problem  $\max s = 3x_1 + 5x_2 + 2x_3 + 4x_4$   $x_1 + 2x_2 + 3x_3 + 4x_4 \leq 3$   $2x_1 + x_2 + x_3 + 2x_4 \leq 4$   $x_1, x_2, x_3, x_4 \geq 0$  solution the problem in standard form is the initial tableau is  $\min s = 3s_1 + 2s_2$

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recognize the typical form of a linear programming problem formulate maximization linear programming problems graph

feasible regions for maximization linear programming problems determine optimal solutions for maximization linear programming problems

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