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| **Chapter 11 (Pages 285 – 300)**  **Vocabulary:** random, generating random numbers, simulation, simulation component, trial, response variable, statistical significance, unbiased, random number tables, pseudorandom numbers |
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| **CHAPTER 11 OBJECTIVES:** |
| * Recognize random outcomes in a real-world situation. |
| * Know when to use a simulation to usefully model random behavior in the real world. |
| * Generate random numbers. |
| * Choose a random sample. |
| * Randomly assign subjects to experimental treatments. |
| * Simulate real-world outcomes. |
| * Describe a randomization process or a simulation explicitly so that others can understand your plan and repeat the process. |
| * Discuss results of a simulation study and draw conclusions about the question being investigated |

**TUESDAY, 3.4.25**

**Discuss the previously assigned work:** *Simulation Practice,* page 1.

**Class Work:** Complete and discuss page 2 of the *Simulation Practice*.

**Homework:**

* **Read and take notes on**pages 307 – 311, Chapter 12, *Let Me Count the Ways.*
* Study the “For Example” and “Just Checking” items within these pages. Be ready to discuss.
* Page 324 (#9 – 14)

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| **Chapter 12: *Let Me Count the Ways*** |
| Pages 307 – 328 |
| **NEW OBJECTIVES:** |
| * Identify and give examples of random phenomena. |
| * Understand that The Law of Averages is **Non**existent. |
| * Define equally likely events. |
| * Know the distinction between independent events and dependent events. |
| * Recognize the importance of The Law of Large Numbers that applies to independent events. |
| * Compute relative frequency. |
| * Understand the relationship between relative frequency and theoretical probability. |
| * Know that P(Event) represents the statement, *probability of an event*. |
| * Recognize the P(Event) will always be between 0 and 1 inclusive or, stated in a different way, between 0% and 100%. |
| * Apply the Fundamental Counting Principle when the key word is “or.” Remember that “or” implies addition. |
| * Apply the Fundamental Counting Principle when the key word is “and.” Remember that “and” implies multiplication. |
| * Evaluate factorials and understand the role of factorials in counting. |
| * Define *permutation*. |
| * Find the number of permutations of *n* things taken *r* at a time. |
| * Define combination. |
| * Find the number of combinations of *n* things taken *r* at a time. |
| * Know how to use your TI83/84 graphing calculator to compute factorials, permutations, and combinations. |
| * Use combinations to find a probability. |

**THURSDAY, 3.6.25**

**Discuss the previously assigned work:**

* **Read and take notes on**pages 307 – 311, Chapter 12, *Let Me Count the Ways.*
* Study the “For Example” and “Just Checking” items within these pages. Be ready to discuss.
* Page 324 (#9 – 14)

**Class Work:**

* Read and take notes on pages 312 – 317.
* **Discuss** the “For Example”, “Just Checking” and “Do the Math” items on these pages.

**Homework:**

Page 323, #1 – 3

Page 324, #5, 18

**FRIDAY, 3.7.25 A-DAY, NO CLASS**