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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. |

**MONDAY, 3.10.25**

**Discuss the previously assigned work:**

* **Your notes taken** on pages 312 – 317.
* **Discuss** the “For Example”, “Just Checking” and “Do the Math” items on these pages.
* Page 323, #1 – 3
* Page 324, #5, 18

**Class Work/Homework:** Page 325, #19 – 21; Page 326, #44, 45; Page 327, #50.

**WEDNESDAY, 3.12.25**

**Discuss the previously assigned work:** Page 325, #19 – 21; Page 326, #44, 45; Page 327, #50.

**Class Work:** Read and take notes on pages 318 to 323.

**Homework:** C. 12 Concepts (Handout)

**FRIDAY, 3.14.25**

**Discuss the previously assigned work:** C. 12 Concepts

**Homework:** ***Permu-combo-what? (***Handout)