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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.
 |

**TUESDAY, 3.25.25**

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

**Class Work:** Permu***-combo-what? (***Handout)

**Class Work/Homework**: Page 326, #40 – 43.

**THURSDAY, 3.27.25**

**Class Work/Homework**: Please bring this work to your next class meeting.

* ***Chapter 12, Review A*** (Handout to be received during class)
* Page 327, #48, 49.

**FRIDAY, 3.28.25 \_\_NO CLASS, SENIOR PROJECT PRESENTATIONS**