|  |
| --- |
| **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, 4.1.25**

**Turn in your E-Learning work from 3.28.25:**

* **Page 327,#46, *Lotto Winners*.** **Show** how you will calculate the probabilities in parts a and b. **Then, use your TI-84 to compute the probabilities**, accurate to 4 decimal places.

**Discuss the previously assigned work:**

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

**Class Work/Homework:** C. 12 Reading Guide

**A Look at** Chapter 12 Powerpoint Slides

**Homework:** Study for a Chapter 12 Quiz to be taken on Thursday. You may use one page of notes.

**THURSDAY, 4.3.25**

**Chapter 12 Quiz.** You may use one page of notes.

|  |
| --- |
| **Chapter 13: What Are the Chances?** |
| Pages 329 – 340  |
| **NEW OBJECTIVES: Know and use the following:** |
| * The 5 Rules of Formal Probability
 |
| * The symbol for the complement of an event
 |
| * The Complement Rule
 |
| * The definition of 2 events that are independent of each other.
 |
| * The Multiplication Rule for Independent Events
 |
| * The definition of disjoint events
 |
| * The Addition Rule for Disjoint Events
 |

**Class Work/Homework:**

* **Read and take notes on C. 13,** *What Are the Chances?* (Pages 329 – 340).
* Pages 340 and 341 (1-11, odds).
* Fill in the ***Chapter 13 Reading Guide.*** Due on Tuesday, 4.8.25, as a Test
* grade.

**FRIDAY, 4.4.25 \_\_\_\_ A-DAY, NO CLASS**