Permutations, Combinations, and Binomial Probability

Fundamental Counting Principle: The counting principle suggests if one event has m possible outcomes and a second independent event has n possible outcomes, then there are m x n total possible outcomes for the two events together.

(This basically suggests Options - Options - Options - will determine the number of possible outcomes.)

Permutations: A collection of things, in which the order does matter.

Combinations: A collection of things, in which the order does NOT matter.

Directions: No Work = No Full Credit. Then, determine the number of possibilities:

- 10 friends are at a party and they decided the party was boring and decided to go to a club in two different cars. One
  of the friends, Susan, has an SUV that can carry 7 passengers. So, Susan, can take 6 more of the 9 friends with her.
  How many different groups of 6 people are possible from the 9 remaining friends? combination 9c6=84
- A person is playing a card game called "21" in which they receive 2 cards from a dealer. If the order does not matter how many 2 card hands are possible (52 cards in a deck)? combination 52c3=1326
- There are 12 students are in a class. The students are instructed to line up on a set chorus stand. That has 3 rows. The
  front row can hold 5 people. How many possible <u>arrangements</u> are there for the front row using the 12 students?
  Permutation 12x11x10x9x8 12p5(95040)
- 4. How many unique license plates tags can be created if each is 6 characters such that the first three characters can be any letter or number but no character is allowed to be repeated in the first three characters, and the last three spaces can be any letter or number?
- The Mrs. Georgia pageant is taking place and there are 20 contestants. How many different ways could the pageant have a winner and a runner up? permutation 20p2=20x19 (380)
- 6. The following shows a lottery card in which a participant bubbles in 6 numbers out of 42. How many different ways can a participant select a group of 6 numbers? combination 42C6 5245786

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- 7. A Chocolate Ice Cream Sunday is being prepared at Bruce & Stirs. At the ice cream shop there are 10 different types of ice cream that can be used, 3 different types of syrup, and 2 different types of nuts. How many different types of ice cream Sundays are possible if each contain one type of ice cream, one type of syrup, and one type of nut?
- \$10 for ice cream \$3 syrup \$2 nuts
  8. A Chocolate Ice Cream Sunday is being prepared at Bruce & Stirs. At the ice cream shop there are 10 different types of ice cream that can be used, 3 different types of syrup, and 2 different types of nuts. How many different types of ice cream Sundays are possible if each contain two types of ice cream, one type of syrup, and one type of nut?
- Binomial Probabilities: A student is taking a 4 question true/fulse quiz. The student doesn't know any of the answers and completely guesses on each question.
  - a. Create a tree diagram with probabilities showing every possible outcome of Correct and Wrong answers.
  - b. What is the probability that the student will make EXACTLY a 75% using your tree diagram?
  - c. What is the probability that the student will make EXACTLY a 75% using your <u>combinations or the calculator</u>?

# **Amdm Unit 1 Answers**

**L** Manion

**Amdm Unit 1 Answers: Working Paper Series**,1999

## Amdm Unit 1 Answers Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has be more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Amdm Unit 1 Answers**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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