



PERMUTATIONS & COMBINATIONS

COUNTING TECHNIQUES

PERMUTATIONS

- Permutation is the number of ways to arrange things.

Eg : My safe code is 492.

(order matters)

- $P(n,r) = {}^n P_r = \frac{n!}{(n-r)!}$, Where $0 \leq r \leq n$

$n \rightarrow$ the number of things to choose from

$r \rightarrow$ the number of things we choose

$! \rightarrow$ factorial.

COMBINATIONS

- Combination is the number of ways to choose things.

Eg : My Salad is a Combination of carrot, Onion, Tomato and Lemon.

(order doesn't matter)

- $C(n,r) = {}^n C_r = \frac{n!}{r!(n-r)!} = \binom{n}{r}$; Where $0 \leq r \leq n$

$n \rightarrow$ the number of things to choose from

$r \rightarrow$ the number of things we choose

TYPES OF PERMUTATIONS & COMBINATIONS

When Repetition is Allowed.

1. Permutations with Repetition

Formula: n^r

(Repetition allowed, order matters)



2. Combinations with Repetition

Formula: $\binom{n+r-1}{r}$

(Repetition allowed, order does not matter)



When Repetition is not Allowed.

1. Permutations without Repetition

Formula: $\frac{n!}{(n-r)!}$

(No repetition, order matters)



2. Combinations without Repetition

Formula: $\frac{n!}{r!(n-r)!}$

(No repetition, order does not matter)



Permutations And Combinations Teaching Resources

Emilie Sanchez



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Table of Contents Permutations And Combinations Teaching Resources

1. Understanding the eBook Permutations And Combinations Teaching Resources
 - The Rise of Digital Reading Permutations And Combinations Teaching Resources
 - Advantages of eBooks Over Traditional Books
2. Identifying Permutations And Combinations Teaching Resources
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Permutations And Combinations Teaching Resources
 - User-Friendly Interface
4. Exploring eBook Recommendations from Permutations And Combinations Teaching Resources
 - Personalized Recommendations
 - Permutations And Combinations Teaching Resources User Reviews and Ratings
 - Permutations And Combinations Teaching Resources and Bestseller Lists
5. Accessing Permutations And Combinations Teaching Resources Free and Paid eBooks
 - Permutations And Combinations Teaching Resources Public Domain eBooks
 - Permutations And Combinations Teaching Resources eBook Subscription Services
 - Permutations And Combinations Teaching Resources Budget-Friendly Options

6. Navigating Permutations And Combinations Teaching Resources eBook Formats
 - ePub, PDF, MOBI, and More
 - Permutations And Combinations Teaching Resources Compatibility with Devices
 - Permutations And Combinations Teaching Resources Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Permutations And Combinations Teaching Resources
 - Highlighting and Note-Taking Permutations And Combinations Teaching Resources
 - Interactive Elements Permutations And Combinations Teaching Resources
8. Staying Engaged with Permutations And Combinations Teaching Resources
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Permutations And Combinations Teaching Resources
9. Balancing eBooks and Physical Books Permutations And Combinations Teaching Resources
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Permutations And Combinations Teaching Resources
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Permutations And Combinations Teaching Resources
 - Setting Reading Goals Permutations And Combinations Teaching Resources
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Permutations And Combinations Teaching Resources
 - Fact-Checking eBook Content of Permutations And Combinations Teaching Resources
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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