



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: ${}^{(k+r-1)} C_r$

(Repetition allowed, order does not matter)



When Repetition is not Allowed.

1. Permutations without Repetition

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

(No repetition, order matters)



2. Combinations without Repetition

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

(No repetition, order does not matter)



Permutations And Combinations Teaching Resources

LP Steffe



Permutations And Combinations Teaching Resources:

Resources in Education ,1997-05 **Riverside Mathematics: Teacher's problem solving resource book** Siegfried Haenisch,1985 *Resources in Education* ,1996 *Chapters on the Aims and Practice of Teaching* Frederic Spencer,1897

Teaching Mathematics for the 21st Century Linda Huetinck,Sara N. Munshin,2000 For courses in Mathematics Methods for the Secondary School This is the first middle and secondary math methods text to focus on reform and the national standards It prepares teachers for the challenge of assisting all students in reaching the highest level of mathematics according to their interest and realistic ambitions It also provides contemporary methods of teaching mathematics which facilitates successful instruction with a strong understanding of the philosophy and psychology behind sound practices Coverage includes methodology curriculum materials and use of technology accompanied by many practical suggestions for implementation

Teachers Guide to the Use of Community Resources in Economic Education Joint Council on Economic Education,1955 *Chapters on the aims and practice of teaching, ed. by F. Spencer* Chapters,1897

Mathematics Teacher Resource Handbook ,1993 The National School Digest ,1920 **Reforming Mathematics Teaching** Pamela Kaye Geist,1998 *The Internet Resource Directory for K-12 Teachers and Librarians* Elizabeth B. Miller,2000 Directory of information useful for K 12 students and teachers which can be accessed by e mail gopher usenet telnet and file transfer protocol FTP *The School World* ,1904 *Personal Computers and the Adult Learner* Barry Heermann,1986 *Today's Mathematics, Concepts and Classroom Methods* James W. Heddens,William R. Speer,2000-08-25 This classic allows readers to easily build a valuable set of ideas and reference materials for actual classroom use Designed to aid the teacher in understanding mathematical concepts and relationships the authors reflect recent recommendations from the National Council of Teachers of Mathematics Standards 2000 Catalogue, Announcement ... Silliman University,1970 *Behavior Research and Technology in Higher Education* Lawrence E. Fraley,Ernest A. Vargas,1976

Lectures and Methodological Essays on Educational Planning, Bergneustadt, 6th-24th July 1964 Organisation for Economic Co-operation and Development. Directorate for Scientific Affairs,1966 Contemporary Mathematics in Context ,2003 *Significant Changes and Trends in the Teaching of Mathematics Throughout the World Since 1910* ,1929

Mathematics for Elementary Teachers Via Problem Solving: Instructor's resource manual Joanna Osborne Masingila,1998

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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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