

## Permutations and Combinations

Number of permutations  
(order matters) of  $n$  things  
taken  $r$  at a time:

$$P(n, r) = \frac{n!}{(n-r)!}$$

Number of combinations  
(order does not matter) of  $n$   
things taken  $r$  at a time:

$$C(n, r) = \frac{n!}{(n-r)!r!}$$

Number of different permutations of  $n$   
objects where there are  $n_1$  repeated items,  
 $n_2$  repeated items, ...  $n_k$  repeated items

$$\frac{n!}{n_1!n_2!\dots n_k!}$$

# Permutation And Combination Problems With Solutions

**Puja Mehta**



## **Permutation And Combination Problems With Solutions:**

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*Significant Changes and Trends in the Teaching of Mathematics Throughout the World Since 1910*, 1929

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**The Nature of Modern Mathematics** Karl J. Smith, 1976

**The Encyclopedia Americana**, 1927

**The Americana**, 1911

**Algebra for College Students** Robert Blitzer, 2002 Algebra for College Students fourth edition is written for students who have had the equivalent of one year of high school algebra The content of the book is drawn from both intermediate algebra and

college algebra and provides comprehensive coverage of the topics required in a strong one term course in intermediate algebra or a one term algebra for college students course The goal of the Blitzer Algebra series is to provide students with a strong foundation in Algebra Each text is designed to develop students critical thinking and problem solving capabilities and prepare students for subsequent Algebra courses as well as service math courses Topics are presented in an interesting and inviting format incorporating real world sourced data and encouraging modeling and problem solving

**The Americana**  
Frederick Converse Beach, George Edwin Rines, 1912

**Program of the Thirteenth Annual Conference of the  
Cognitive Science Society** Cognitive Science Society (U.S.). Conference, 1991

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