

## 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

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

# Combinatorics Combinatorics

**Camilla Rothe**



**Combinatorics Combinatorics:**

## **Combinatorics Combinatorics** Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Combinatorics Combinatorics**," compiled 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's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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