

Definition

A *combination* is a grouping of outcomes in which the order does not matter.

Formula

The number of *combinations* of n things chosen r at a time is found using ${}_n C_r = \frac{n!}{r!(n-r)!}$.

Example

How many pairs can be made from a group of 6 people?

(Jin and Tom are the same pair as Tom and Jin)

$${}_6 C_2 = \frac{6!}{2!(6-2)!} = \frac{720}{2(24)} = 15$$

Definition

A *permutation* is an arrangement of outcomes in which the order does matter.

Formula

The number of *permutations* of n things chosen r at a time is found using ${}_n P_r = \frac{n!}{(n-r)!}$.

Example

6 people are in a contest. How many ways can 1st and 2nd place be awarded?

(Jin first and Tom second is different than Tom first and Jin second)

$${}_6 P_2 = \frac{6!}{(6-2)!} = \frac{720}{24} = 30$$

Combinations

Permutations

Permutations And Combinations Examples With Answers

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