

Tips and Tricks

Permutation and Combination

Tips and Tricks and Shortcuts for Permutation and Combination

- Use permutations if a problem calls for the number of arrangements of objects and different orders are to be counted.
- Use combinations if a problem calls for the number of ways of selecting objects and the order of selection is not to be counted.
- Summary of formula to use

Order	Repetition	Formula
Permutation	Yes	n^r
Permutation	No	nPr
Combination	Yes	$r + n - 1Cr$
Combination	No	nCr