

## Tips and Tricks

- Try to solve as much as possible problems, it is a effective solution for gaining confidence in this chapter.
- In permutation and combination it is important to understand basic type problems and then being able to apply them on new problems.
- To be able to master this you should first try to understand basic problems taught in video lectures in depth. Then try to to solve as many problems as possible, with more problems you will get better idea of concepts
- As always try to practice timed tests.
- Also see solving trick of specific type problems.

Easy to understand difference:

## Permutation

- Permutation is the arrangement of items in which **order matters**
- Number of ways of **selection and arrangement of items** in which Order Matters

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

## Combination

- Combination is the selection of items in which **order does not matters**.
- Number of ways of **selection of items** in which Order does not Matters

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

For other important formulas see different case formulas and concepts.