## Problems based on Combination and Permutation.

(1) Problems based on combination or selection:To solve such kind of problems, we use ${ }^{n} C_{r}=\frac{n!}{r!(n-r)!}$.
(2) Problems based on permutation or arrangement:To solve such kind of problems, we use ${ }^{n} P_{r}=\frac{n!}{(n-r)!}$.

