

Example

- What is the number of k -subsets of a set $S = \{s_1, s_2, s_3, \dots, s_n\}$ that do not include s_1 ?
- Solution: same as number of k -subsets of $\{s_2, s_3, \dots, s_n\}$. So $(n-1)!/[(n-1-k)!k!]$