

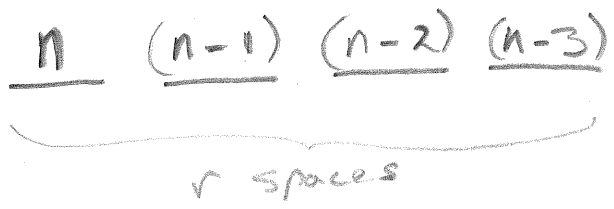
Permutations - order matters (Specify Spaces)
ex. selecting pres VP Treas.

1st



write number of possible objects, n in each space and multiply

2nd



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

Combinations - order doesn't matter (Spaces are same)
ex. selecting 3 members

Permutation
r!

$$\frac{n \cdot (n-1) \cdot (n-2) \cdot (n-3)}{r!}$$

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