Permutations WS

Putting one set of n things in order: n!

Picking a smaller set, r, from a larger set, n, and putting them in order: ${}_{n}P_{r}$

Permuations: order matters

 $_{n}P_{r}$

VS.

Combinations: order doesn't matter

nCr

10 people in a class and 2 are being chosen for President and Vice-President.

10 people in a class and 2 are being chosen for class representatives.

