Permutations

Permutation   is an arrangement of objects in which the order matters – without repetition

Type equation here.

$_n\text{P}_r$ is read as a permutation of n things taken r at a time.

$_7\text{P}_3$ is read as a permutation of 7 things taken 3 at a time.

$$_n\text{P}_r = \frac{n!}{(n-r)!}$$