

Permutations (Order Matters)

A ——— B

A ——— C

B ——— A

B ——— C

C ——— A

C ——— B

$$P(3, 2) = \frac{3!}{(3-2)!} = 6$$

Combinations (Order Does NOT Matter)

{A, B}

{A, C}

{B, C}

$$C(3, 2) = \frac{3!}{2!(3-2)!} = 3$$