



PERMUTATIONS & COMBINATIONS

COUNTING TECHNIQUES

PERMUTATIONS

- Permutation is the number of ways to arrange things.

Eg : My safe code is 492.

(order matters)

- $P(n,r) = {}^n P_r = \frac{n!}{(n-r)!}$, Where $0 \leq r \leq n$
 $n \rightarrow$ the number of things to choose from
 $r \rightarrow$ the number of things we choose
 $! \rightarrow$ factorial.

COMBINATIONS

- Combination is the number of ways to choose things.

Eg : My Salad is a Combination of carrot, Onion, Tomato and Lemon.

(order doesn't matter)

- $C(n,r) = {}^n C_r = \frac{n!}{r!(n-r)!} = \binom{n}{r}$; Where $0 \leq r \leq n$
 $n \rightarrow$ the number of things to choose from
 $r \rightarrow$ the number of things we choose

TYPES OF PERMUTATIONS & COMBINATIONS

When Repetition is Allowed.

1. Permutations with Repetition

Formula: n^r

(Repetition allowed, order matters)



2. Combinations with Repetition

Formula: ${}^{(k+r-1)} C_r$

(Repetition allowed, order does not matter)



When Repetition is not Allowed.

1. Permutations without Repetition

Formula: ${}^n P_r = \frac{n!}{(n-r)!}$

(No repetition, order matters)



2. Combinations without Repetition

Formula: ${}^n C_r = \frac{n!}{r!(n-r)!}$

(No repetition, order does not matter)



Permutations And Combinations Teaching Resources

M Walker



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