



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 with Repetition

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

(No repetition, order does not matter)



Permutations And Combinations Teaching Resources

L Reisser



Permutations And Combinations Teaching Resources:

Unveiling the Energy of Verbal Artistry: An Emotional Sojourn through **Permutations And Combinations Teaching Resources**

In some sort of inundated with monitors and the cacophony of quick interaction, the profound power and psychological resonance of verbal art often diminish into obscurity, eclipsed by the regular onslaught of sound and distractions. Yet, located within the lyrical pages of **Permutations And Combinations Teaching Resources**, a fascinating perform of literary beauty that pulses with fresh feelings, lies an wonderful journey waiting to be embarked upon. Composed with a virtuoso wordsmith, this exciting opus manuals viewers on an emotional odyssey, lightly revealing the latent potential and profound influence embedded within the intricate web of language. Within the heart-wrenching expanse of this evocative analysis, we will embark upon an introspective exploration of the book is central subjects, dissect their charming writing design, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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