Define Permutation In Math

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Permutation. A collection of things, where the order is important. Example: You want to visit the homes of three friends Alex ("a"), Betty ("b") and Chandra ("c"), but haven't decided in what order. What choices do you have? When the order does matter, such as in a fruit salad, it is a Combination.

Permutation Definition (Illustrated Mathematics Dictionary)

Permutation. The number of permutations of n distinct objects is n factorial, usually written as n!, which means the product of all positive integers less than or equal to n . In algebra and particularly in group theory, a permutation of a set S is defined as a bijection from S to itself.

Permutation - Wikipedia

The permutation of n objects taken r at a time is represented as nPr. The permutation or arrangement of 9 different balls in 3 different rows can be done in 9P3 = 504 ways. The permutation of n objects taken all at a time is represented as nPn = n!. Factorial: Factorial means a series of multiplications from 1 up to some number.

Definition and examples of permutation | define ...

Mathematics. the act of changing the order of elements arranged in a particular order, as abc into acb, bac, etc., or of arranging a number of elements in groups made up of equal numbers of the elements in different orders, as a and b in ab and ba; a one-to-one transformation of a set with a finite number of elements. any of the resulting ...

Permutation | Definition of Permutation at Dictionary.com

In mathematics, combination and permutation are two different ways of grouping elements of a set into subsets. In a combination, the elements of the subset can be listed in any order. In a permutation, the elements of the subset are listed in a specific order.

What is combination and permutation? - Definition from ...

(Mathematics) maths a. an ordered arrangement of the numbers, terms, etc, of a set into specified groups: permutations of a, b, c, at a cb. The number of permutations of n objects taken r at a time is n !/ (n – r)!. (Gambling, except Cards) a fixed combination for selections of results on football pools.

Permutation - definition of permutation by The Free Dictionary

Introduction to Permutations. A permutation is an arrangement or ordering of a number of distinct objects. For example, the words 'top' and 'pot' represent two different permutations (or arrangements) of the same three letters.

Permutation: Definition, Formula & Examples - Study.com

Definition of permutation. 1. : often major or fundamental change (as in character or condition) based primarily on rearrangement of existent elements. the system has gone through several permutations.

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