

PERMUTATIONS & COMBINATIONS

First let us see the definitions that we need to solve the questions.

Factorial: Factorial of any non-negative integer 'n' (denoted by n!) is equal to product of all the integers from 1 to n.

$$\therefore n! = 1 \times 2 \times 3 \times \dots \times n$$

Try to memorize the factorial values of first 8 numbers.

$$1! = 1, \quad 2! = 2, \quad 3! = 6, \quad 4! = 24, \quad 5! = 120, \quad 6! = 720, \quad 7! = 5040, \quad 8! = 40320$$

Counting principle: If an operation can be performed in m-ways and a second operation can be performed in n-ways corresponding to each performance of the first operation, then the two operations in successions can be performed in mn ($m \times n$) ways.

Permutations: An arrangement that can be formed by taking some or all the finite set of objects is called a permutation.

If the objects are arranged in a line then it is called a linear permutation and if the objects are arranged in the form of a circle then it is called a circular permutation.

The number of permutations that can be made by taking any r-objects at a time from a set of n-dissimilar objects ($r \leq n$) is denoted by ${}^n P_r$ or $n (P, r)$.

$${}^n P_r = \frac{n!}{(n-r)!} = n (n-1) (n-2) \dots (n-r+1)$$

The number of permutations that can be made by taking all the given 'n' dissimilar objects is equal to n!.

Formulae:

1) The number of ways that 'n' distinct letters of a word can be arranged is equal to n!.

Permutations 7 Practice C Answers

Huangqi Zhang



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