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the study of discrete objects it
has applications to diverse

areas of mathematics and science and has played a particularly important role in the development of computer science while it is arguably as old as counting combinatorics has grown remarkably in the past half century alongside the rise of computers [combinations and permutations math is fun](#) Jul 25 2022 web combinations and permutations what s the difference in english we use the word combination loosely without thinking if the order of things is important in other words my fruit salad is a combination of apples grapes and bananas we don t care what order the fruits are in they could also be bananas grapes and apples or grapes

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mathematical operations to count quantities that are much too large to be counted the conventional way combinatorics is especially useful in computer science combinatorics methods can be used to develop [basics of combinatorics tutorials notes math hackerearth](#) Jun 24 2022 web combinatorics is all about number of ways of choosing some objects out of a collection and or number of ways of their arrangement for example suppose there are five members in a club let s say their names are a b c d and e and one of them is to be chosen as the coordinator clearly any one out of them can be chosen

so there are 5 ways
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conditions without analyzing each and every possible case separately analyzing deriving and counting common properties of structures satisfying given con ditions can in principle be quite challenging and require a non trivial amount of focus and concentration
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combinatorics to calculate the total number of possible outcomes
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study of finite discrete
structures it deals with the

study of permutations and
combinations enumerations of
the sets of elements it

characterizes mathematical
relations and their properties