

# How can I use the COMBINA function in excel to combine a given number of items without repetition?

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The COMBINA function in excel is a useful tool for combining a given number of items without repetition. This function allows users to easily generate a list of all possible combinations of a set of items, without repeating any item within a combination. It is particularly useful for tasks such as creating unique passwords, lottery number combinations, or any other situation where a set number of items need to be combined without repetition. By utilizing the COMBINA function, users can save time and effort in manually creating these combinations and ensure accuracy in their results.

This article describes the formula syntax and usage of the **COMBINA** function in Microsoft Excel.

## Description

Returns the number of combinations (with repetitions) for a given number of items.

## Syntax

COMBINA(number, number\_chosen)

The COMBINA function syntax has the following arguments.

**Number** Required. Must be greater than or equal to 0, and greater than or equal to Number\_chosen. Non-integer values are truncated.

**Number\_chosen** Required. Must be greater than or equal to 0. Non-integer values are truncated.

## Remarks

If the value of either argument is outside of its constraints, COMBINA returns the #NUM! error value.

If either argument is a non-numeric value, COMBINA returns the #VALUE! error value.

The following equation is used:

$$\binom{N + M - 1}{N - 1}$$

In the equation above, N is Number and M is Number\_chosen.