

# How can I use the PERMUT function in Google Sheets?

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## RECOMMENDED CITATION

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The PERMUT function in Google Sheets is a useful tool for calculating the number of possible permutations for a given set of objects. This function takes two parameters - the number of objects and the number of objects to be selected - and returns the total number of possible arrangements. By using the PERMUT function, users can easily determine the number of different outcomes for a specific scenario, making it a valuable tool for organizing and analyzing data in spreadsheet applications. To use the PERMUT function, simply input the two parameters in the designated cells and the function will automatically calculate the desired permutation. This feature can greatly enhance the efficiency and accuracy of data analysis in Google Sheets.

## PERMUT

Returns the number of ways to choose some number of objects from a pool of a given size of objects, considering order.

### Sample Usage

```
PERMUT(4, 2)
```

```
PERMUT(A2, B2)
```

### Syntax

```
PERMUT(n, k)
```

**n** - The size of the pool of objects to choose from.

**k** - The number of objects to choose.

### Notes

**PERMUT** is the standard combinatorics function typically notated  $nPk$ . This is similar to **COMBIN** except in permutations, the order of selection is considered rather than simply the resultant selected subset.

### See Also

**MULTINOMIAL**: Returns the factorial of the sum of values divided by the product of the values' factorials.

**FACTDOUBLE**: Returns the "double factorial" of a number.

**FACT:** The FACT function returns the factorial of a number.

**COMBIN:** The COMBIN function returns the number of ways to choose some number of objects from a pool of a given size of objects.

## Examples

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