

# How can I use the AVERAGEIFS function in Excel to calculate the average of a range of cells based on multiple criteria?

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The AVERAGEIFS function in Excel is a powerful tool that allows users to calculate the average of a range of cells based on multiple criteria. This function takes into account one or more criteria and only includes cells that meet all of the specified conditions in the calculation. This allows for a more precise and specific calculation of the average, making it a useful tool for data analysis and reporting. By using the AVERAGEIFS function, users can easily filter and analyze data based on various criteria, such as dates, names, or numerical values, to determine the average value of a specific subset of data. This function is a valuable asset for those looking to accurately analyze and present data in a concise manner.

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

## Description

Returns the average (arithmetic mean) of all cells that meet multiple criteria.

## Syntax

AVERAGEIFS(average\_range, criteria\_range1, criteria1, , ...)

The AVERAGEIFS function syntax has the following arguments:

**Average\_range** Required. One or more cells to average, including numbers or names, arrays, or references that contain numbers.

**Criteria\_range1, criteria\_range2, ...** Criteria\_range1 is required, subsequent criteria\_ranges are optional. 1 to 127 ranges in which to evaluate the associated criteria.

**Criteria1, criteria2, ...** Criteria1 is required, subsequent criteria are optional. 1 to 127 criteria in the form of a number, expression, cell reference, or text that define which cells will be averaged. For example, criteria can be expressed as 32, "32", ">32", "apples", or B4.

## Remarks

If average\_range is a blank or text value, AVERAGEIFS returns the #DIV0! error value.

If a cell in a criteria range is empty, AVERAGEIFS treats it as a 0 value.

Cells in range that contain TRUE evaluate as 1; cells in range that contain FALSE evaluate as 0 (zero).

Each cell in average\_range is used in the average calculation only if all of the corresponding criteria specified are true for that cell.

Unlike the range and criteria arguments in the AVERAGEIF function, in AVERAGEIFS each criteria\_range must be the same size and shape as sum\_range.

If cells in average\_range cannot be translated into numbers, AVERAGEIFS returns the #DIV/0! error value.

If there are no cells that meet all the criteria, AVERAGEIFS returns the #DIV/0! error value.

You can use the wildcard characters, question mark (?) and asterisk (\*), in criteria. A question mark matches any single character; an asterisk matches any sequence of characters. If you want to find an actual question mark or asterisk, type a tilde (~) before the character.

**Note:** The AVERAGEIFS function measures central tendency, which is the location of the center of a group of numbers in a statistical distribution. The three most common measures of central tendency are:

**Average** which is the arithmetic mean, and is calculated by adding a group of numbers and then dividing by the count of those numbers. For example, the average of 2, 3, 3, 5, 7, and 10 is 30 divided by 6, which is 5.

**Median** which is the middle number of a group of numbers; that is, half the numbers have values that are greater than the median, and half the numbers have values that are less than the median. For example, the median of 2, 3, 3, 5, 7, and 10 is 4.

**Mode** which is the most frequently occurring number in a group of numbers. For example, the mode of 2, 3, 3, 5, 7, and 10 is 3.

For a symmetrical distribution of a group of numbers, these three measures of central tendency are all the same. For a skewed distribution of a group of numbers, they can be different.