

How do I use the GAMMA function in Excel?

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June 29, 2024

RECOMMENDED CITATION

stats writer (2024). *How do I use the GAMMA function in Excel?*. PSYCHOLOGICAL SCALES. Retrieved from <https://scales.arabpsychology.com/?p=160227>

The GAMMA function in Excel is a mathematical function that calculates the gamma value of a given number. This function is primarily used in statistical analysis and can be accessed through the "Formulas" tab in Excel. To use the GAMMA function, simply select a cell where you want the result to appear, type "=GAMMA(" into the formula bar, and then enter the number for which you want to calculate the gamma value. This will return the result in the selected cell. The GAMMA function can also be used in combination with other functions and mathematical operations to perform more complex calculations. It is a useful tool for analyzing data and making statistical inferences in Excel.

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

Description

Return the gamma function value.

Syntax

GAMMA(number)

The GAMMA function syntax has the following arguments.

Number Required. Returns a number.

Remarks

GAMMA uses the following equation:

$$\Gamma(N) = \int_0^{\infty} t^{N-1} e^{-t} dt$$

$$\Gamma(N+1) = N * \Gamma(N)$$

If Number is a negative integer or 0, GAMMA returns the #NUM! error value.

If Number contains characters that are not valid, GAMMA returns the #VALUE! error value.