How do I use the CHISQ.DIST function in Excel?

Authored by
stats writer

June 29, 2024

ARABPSYCHOLOGY.COM

RECOMMENDED CITATION

stats writer (2024). *How do I use the CHISQ.DIST function in Excel?*. PSYCHOLOGICAL SCALES. Retrieved from https://scales.arabpsychology.com/?p=157600

The CHISQ.DIST function in Excel is a statistical function that calculates the chi-square distribution, which is commonly used in hypothesis testing. To use this function, you need to provide two arguments: x and degrees of freedom (df). X is the value at which you want to evaluate the distribution, and df is the number of degrees of freedom. The CHISQ.DIST function returns the probability associated with the chi-square distribution. This function can be useful in analyzing data and making informed decisions based on statistical significance. It is important to note that the x value must be positive and the degrees of freedom must be greater than 0 for the function to work properly. Overall, the CHISQ.DIST function is a powerful tool for conducting statistical analyses in Excel.

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

Description

Returns the chi-squared distribution.

The chi-squared distribution is commonly used to study variation in the percentage of something across samples, such as the fraction of the day people spend watching television.

Syntax

CHISQ.DIST(x,deg_freedom,cumulative)

The CHISQ.DIST function syntax has the following arguments:

X Required. The value at which you want to evaluate the distribution.

Deg_freedom Required. The number of degrees of freedom.

Cumulative Required. A logical value that determines the form of the function. If cumulative is TRUE, CHISQ.DIST returns the cumulative distribution function; if FALSE, it returns the probability density function.

Remarks

If any argument is nonnumeric, CHISQ.DIST returns the #VALUE! error value.

If x is negative, CHISQ.DIST returns the #NUM! error value.

If deg_freedom is not an integer, it is truncated.

ARABPSYCHOLOGY.COM

If deg_freedom < 1 or deg_freedom > 10^10, CHISQ.DIST returns the #NUM! error value.

ARABPSYCHOLOGY.COM