

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

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June 30, 2024

## RECOMMENDED CITATION

stats writer (2024). *How can I use the PHI function in Google Sheets?*. PSYCHOLOGICAL SCALES. Retrieved from <https://scales.arabpsychology.com/?p=162935>

The PHI function in Google Sheets is a mathematical tool that calculates the cumulative probability of a given value in a normal distribution. It can be used to determine the likelihood of a certain value occurring within a data set. To use the PHI function, simply enter the desired value and the mean and standard deviation of the data set. This function is useful for analyzing and interpreting data in various fields such as finance, statistics, and research. It is a valuable feature in Google Sheets that allows users to easily perform complex calculations and make data-driven decisions.

## PHI function

The PHI function returns the value of the density function for a normal distribution with mean 0 and



standard deviation 1, calculated with the formula .

## Parts of a PHI function

PHI ( x )

Parts	Description
x	The input to the standard normal distribution function.

## Sample formula

PHI ( 0 . 25 )

## Notes

This is a special case of the NORMDIST function, where mean is 0, standard deviation is 1, and 'cumulative' is false.

## Examples

	A	B
1	<b>Formula</b>	<b>Result</b>
2	=PHI(0.5)	0.3520653268
3	=PHI(1)	0.2419707245
4	=PHI(1.5)	0.1295175957

## Related functions

**STDEV:** The STDEV function calculates the standard deviation based on a sample.

**NORMDIST:** The NORMDIST function returns the value of the normal distribution function (or normal cumulative distribution function) for a specified value, mean, and standard deviation.

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