How do I use the NEGBINOMDIST function in Google Sheets?

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The NEGBINOMDIST function in Google Sheets is a statistical function used to calculate the probability of a certain number of failures before a specific number of successes occur in a series of independent trials. To use this function, first select the cell where you want the result to appear. Then, type "=NEGBINOMDIST" followed by an open parenthesis. Next, enter the number of failures, the number of successes, and the probability of success in the corresponding fields. Finally, close the parenthesis and press enter to calculate the probability. This function can be useful in various fields such as finance, marketing, and quality control.

NEGBINOMDIST

Calculates the probability of drawing a certain number of failures before a certain number of successes given a probability of success in independent trials.

Sample Usage

```
NEGBINOMDIST(4,2,0.1)
```

```
NEGBINOMDIST(A2,A3,A4)
```

Syntax

```
NEGBINOMDIST(num_failures, num_successes, prob_success)
```

`num_failures` - The number of failures to model.

`num_successes` - The number of successes to model.

`prob_success` - The probability of success in any given trial.

Notes

`NEGBINOMDIST` models the negative binomial distribution, which is related to the binomial distribution except that the number of trials is variable whereas the number of successes is fixed.

See Also

`WEIBULL`: Returns the value of the Weibull distribution function (or Weibull cumulative distribution function) for a specified shape and scale.

`POISSON`: Returns the value of the Poisson distribution function (or Poisson cumulative distribution function) for a specified value and mean.

`NORMSINV`: Returns the value of the inverse standard normal distribution function for a specified value.

`NORMSDIST`: Returns the value of the standard normal cumulative distribution function for a specified value.

`NORMINV`: Returns the value of the inverse normal distribution function for a specified value, mean, and standard deviation.

`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.

`LOGNORMDIST`: Returns the value of the log-normal cumulative distribution with given mean and standard deviation at a specified value.

`LOGINV`: Returns the value of the inverse log-normal cumulative distribution with given mean and standard deviation at a specified value.

`HYPGEOMDIST`: Calculates the probability of drawing a certain number of successes in a certain number of tries given a population of a certain size containing a certain number of successes, without replacement of draws.

`EXPONDIST`: Returns the value of the exponential distribution function with a specified lambda at a specified value.

`BINOMDIST`: Calculates the probability of drawing a certain number of successes (or a maximum number of successes) in a certain number of tries given a population of a certain size containing a certain number of successes, with replacement of draws.

Examples