

# How do I calculate the inverse of a logarithm in Google Sheets?

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## RECOMMENDED CITATION

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The inverse of a logarithm can be calculated in Google Sheets by using the "LOG" function and setting the base to the desired value. This function will return the exponent that, when used as the input for the logarithm with the same base, will result in the original number. This can be useful for solving equations involving logarithms or for finding the input value of a given output. To use the "LOG" function in Google Sheets, simply enter "=LOG(number, base)" into a cell, with the number being the original value and the base being the desired logarithm base. The resulting value will be the inverse of the logarithm.

## LOGINV

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

### Sample Usage

```
LOGINV(0.4, 4, 6)
```

```
LOGINV(A2, A3, A4)
```

### Syntax

```
LOGINV(x, mean, standard_deviation)
```

**x** - The input to the inverse log-normal cumulative distribution function.

**mean** - The mean ( $\mu$ ) of the inverse log-normal cumulative distribution function.

**standard\_deviation** - The standard deviation ( $\sigma$ ) of the inverse log-normal cumulative distribution function.

### 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.

**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.

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

**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