

Function	Description
AVEDEV function	Returns the average of the absolute deviations of data points from their mean
AVERAGE function	Returns the average of its arguments
AVERAGEA function	Returns the average of its arguments, including numbers, text, and logical values
AVERAGEIF function	Returns the average (arithmetic mean) of all the cells in a range that meet a given criteria
AVERAGEIFS function	Returns the average (arithmetic mean) of all cells that meet multiple criteria
BETA.DIST function 2010	Returns the beta cumulative distribution function
BETA.INV function 2010	Returns the inverse of the cumulative distribution function for a specified beta distribution
BINOM.DIST function 2010	Returns the individual term binomial distribution probability
BINOM.DIST.RANGE function 2013	Returns the probability of a trial result using a binomial distribution
BINOM.INV function 2010	Returns the smallest value for which the cumulative binomial distribution is less than or equal to a criterion value
CHISQ.DIST function 2010	Returns the cumulative beta probability density function
CHISQ.DIST.RT function 2010	Returns the one-tailed probability of the chi-squared distribution
CHISQ.INV function 2010	Returns the cumulative beta probability density function
CHISQ.INV.RT function 2010	Returns the inverse of the one-tailed probability of the chi-squared distribution
CHISQ.TEST function 2010	Returns the test for independence
CONFIDENCE.NORM function 2010	Returns the confidence interval for a population mean

CONFIDENCE.T function

2010

Returns the confidence interval for a population mean, using a Student's t distribution

CORREL function

Returns the correlation coefficient between two data sets

COUNT function

Counts how many numbers are in the list of arguments

COUNTA function

Counts how many values are in the list of arguments

COUNTBLANK function

Counts the number of blank cells within a range

COUNTIF function

Counts the number of cells within a range that meet the given criteria

COUNTIFS function

Counts the number of cells within a range that meet multiple criteria

COVARIANCE.P function

2010

Returns covariance, the average of the products of paired deviations

COVARIANCE.S function

2010

Returns the sample covariance, the average of the products deviations for each data point pair in two data sets

DEVSQ function

Returns the sum of squares of deviations

EXPON.DIST function

2010

Returns the exponential distribution

F.DIST function

2010

Returns the F probability distribution

F.DIST.RT function

2010

Returns the F probability distribution

F.INV function

2010

Returns the inverse of the F probability distribution

F.INV.RT function

2010

Returns the inverse of the F probability distribution

F.TEST function

2010

Returns the result of an F-test

FISHER function

Returns the Fisher transformation

FISHERINV function

Returns the inverse of the Fisher transformation

FORECAST function

Returns a value along a linear trend

**Note:** In Excel 2016, this function is replaced with [FORECAST.LINEAR](#) as part of the new [Forecasting functions](#), but it's still available for compatibility with earlier versions.

FORECAST.ETS function 2016	Returns a future value based on existing (historical) values by using the AAA version of the Exponential Smoothing (ETS) algorithm
FORECAST.ETS.CONFINT function 2016	Returns a confidence interval for the forecast value at the specified target date
FORECAST.ETS.SEASONALITY function 2016	Returns the length of the repetitive pattern Excel detects for the specified time series
FORECAST.ETS.STAT function 2016	Returns a statistical value as a result of time series forecasting
FORECAST.LINEAR function 2016	Returns a future value based on existing values
FREQUENCY function	Returns a frequency distribution as a vertical array
GAMMA function 2013	Returns the gamma function value
GAMMA.DIST function 2010	Returns the gamma distribution
GAMMA.INV function 2010	Returns the inverse of the gamma cumulative distribution
GAMMALN function	Returns the natural logarithm of the gamma function, $\Gamma(x)$
GAMMALN.PRECISE function 2010	Returns the natural logarithm of the gamma function, $\Gamma(x)$
GAUSS function 2013	Returns 0.5 less than the standard normal cumulative distribution
GEOMEAN function	Returns the geometric mean
GROWTH function	Returns values along an exponential trend
HARMEAN function	Returns the harmonic mean
HYPGEOM.DIST function	Returns the hypergeometric distribution
INTERCEPT function	Returns the intercept of the linear regression line
KURT function	Returns the kurtosis of a data set
LARGE function	Returns the k-th largest value in a data set
LINEST function	Returns the parameters of a linear trend

LOGEST function	Returns the parameters of an exponential trend
LOGNORM.DIST function 2010	Returns the cumulative lognormal distribution
LOGNORM.INV function 2010	Returns the inverse of the lognormal cumulative distribution
MAX function	Returns the maximum value in a list of arguments
MAXA function	Returns the maximum value in a list of arguments, including numbers, text, and logical values
MAXIFS function 2016	Returns the maximum value among cells specified by a given set of conditions or criteria
MEDIAN function	Returns the median of the given numbers
MIN function	Returns the minimum value in a list of arguments
MINIFS function 2016	Returns the minimum value among cells specified by a given set of conditions or criteria.
MINA function	Returns the smallest value in a list of arguments, including numbers, text, and logical values
MODE.MULT function 2010	Returns a vertical array of the most frequently occurring, or repetitive values in an array or range of data
MODE.SNGL function 2010	Returns the most common value in a data set
NEGBINOM.DIST function 2010	Returns the negative binomial distribution
NORM.DIST function 2010	Returns the normal cumulative distribution
NORM.INV function 2010	Returns the inverse of the normal cumulative distribution
NORM.S.DIST function 2010	Returns the standard normal cumulative distribution
NORM.S.INV function 2010	Returns the inverse of the standard normal cumulative distribution
PEARSON function	Returns the Pearson product moment correlation coefficient

PERCENTILE.EXC function

2010

Returns the k-th percentile of values in a range, where k is in the range 0..1, exclusive.

PERCENTILE.INC function

2010

Returns the k-th percentile of values in a range

PERCENTRANK.EXC function

2010

Returns the rank of a value in a data set as a percentage (0..1, exclusive) of the data set

PERCENTRANK.INC function

2010

Returns the percentage rank of a value in a data set

PERMUT function

Returns the number of permutations for a given number of objects

PERMUTATIONA function

2013

Returns the number of permutations for a given number of objects (with repetitions) that can be selected from the total objects

PHI function

2013

Returns the value of the density function for a standard normal distribution

POISSON.DIST function

2010

Returns the Poisson distribution

PROB function

Returns the probability that values in a range are between two limits

QUARTILE.EXC function

2010

Returns the quartile of the data set, based on percentile values from 0..1, exclusive

QUARTILE.INC function

2010

Returns the quartile of a data set

RANK.AVG function

2010

Returns the rank of a number in a list of numbers

RANK.EQ function

2010

Returns the rank of a number in a list of numbers

RSQ function

Returns the square of the Pearson product moment correlation coefficient

SKEW function

Returns the skewness of a distribution

SKEW.P function

2013

Returns the skewness of a distribution based on a population: a characterization of the degree of asymmetry of a distribution around its mean

SLOPE function

Returns the slope of the linear regression line

SMALL function

Returns the k-th smallest value in a data set

STANDARDIZE function	Returns a normalized value
STDEV.P function 2010	Calculates standard deviation based on the entire population
STDEV.S function 2010	Estimates standard deviation based on a sample
STDEVA function	Estimates standard deviation based on a sample, including numbers, text, and logical values
STDEVPA function	Calculates standard deviation based on the entire population, including numbers, text, and logical values
STEYX function	Returns the standard error of the predicted y-value for each x in the regression
T.DIST function 2010	Returns the Percentage Points (probability) for the Student t-distribution
T.DIST.2T function 2010	Returns the Percentage Points (probability) for the Student t-distribution
T.DIST.RT function 2010	Returns the Student's t-distribution
T.INV function 2010	Returns the t-value of the Student's t-distribution as a function of the probability and the degrees of freedom
T.INV.2T function 2010	Returns the inverse of the Student's t-distribution
T.TEST function 2010	Returns the probability associated with a Student's t-test
TREND function	Returns values along a linear trend
TRIMMEAN function	Returns the mean of the interior of a data set
VAR.P function 2010	Calculates variance based on the entire population
VAR.S function 2010	Estimates variance based on a sample
VARA function	Estimates variance based on a sample, including numbers, text, and logical values
VARPA function	Calculates variance based on the entire population, including numbers, text, and logical values

[WEIBULL.DIST function](#)

2010

Returns the Weibull distribution

[Z.TEST function](#)

2010

Returns the one-tailed probability-value of a z-test