

FUNCTION NAME	Excel	Google Sheets	DESCRIPTION
Database Functions			
DAVERAGE	X	X	Returns the average of a set of values selected from a database table-like array or range using a SQL-like query.
DCOUNT	X	X	Counts numeric values selected from a database table-like array or range using a SQL-like query.
DCOUNTA	X	X	Counts values, including text, selected from a database table-like array or range using a SQL-like query.
DGET	X	X	Returns a single value from a database table-like array or range using a SQL-like query.
DMAX	X	X	Returns the maximum value selected from a database table-like array or range using a SQL-like query.
DMIN	X	X	Returns the minimum value selected from a database table-like array or range using a SQL-like query.
DPRODUCT	X	X	Returns the product of values selected from a database table-like array or range using a SQL-like query.
DSTDEV	X	X	Returns the standard deviation of a population sample selected from a database table-like array or range using a SQL-like query.
DSTDEVP	X	X	Returns the standard deviation of an entire population selected from a database table-like array or range using a SQL-like query.
DSUM	X	X	Returns the sum of values selected from a database table-like array or range using a SQL-like query.
DVAR	X	X	Returns the variance of a population sample selected from a database table-like array or range using a SQL-like query.
DVARP	X	X	Returns the variance of an entire population selected from a database table-like array or range using a SQL-like query.
Date [Google] / Date & Time [Excel] Functions			
DATE	X	X	Converts a provided year, month, and day into a date.
DATEVALUE	X	X	Converts a provided date string in a known format to a date value.
DAY	X	X	Returns the day of the month that a specific date falls on, in numeric format.
DAYS360	X	X	Returns the difference between two days based on the 360 day year used in some financial interest calculations.
EDATE	X	X	Returns a date a specified number of months before or after another date.
EOMONTH	X	X	Returns a date representing the last day of a month which falls a specified number of months before or after another date.
HOUR	X	X	Returns the hour component of a specific time, in numeric format.
MINUTE	X	X	Returns the minute component of a specific time, in numeric format.
MONTH	X	X	Returns the month of the year a specific date falls in, in numeric format.
NETWORKDAYS	X	X	Returns the number of whole workdays between two dates
NETWORKDAYS.INTL	new 2010	X	Returns the number of net working days between two provided days excluding specified weekend days and holidays.
NOW	X	X	Returns the current date and time as a date value.
SECOND	X	X	Returns the second component of a specific time, in numeric format.
TIME	X	X	Converts a provided hour, minute, and second into a time.
TIMEVALUE	X	X	Returns the fraction of a 24-hour day the time represents.
TODAY	X	X	Returns the current date as a date value.
WEEKDAY	X	X	Returns a number representing the day of the week of the date provided.
WEEKNUM	X	X	Returns a number representing the week of the year where the provided date falls.
WORKDAY	X	X	Calculates the number of working days from a specified start date.
WORKDAY.INTL	X	X	Calculates the date after a specified number of workdays excluding specified weekend days and holidays.
YEAR	X	X	Returns the year specified by a given date.
YEARFRAC	X	X	Returns the year fraction representing the number of whole days between start_date and end_date

KEY: In the right two columns, an 'X' means the function is present. Functions added in Excel 2010 are in the Excel column as 'new 2010'; those added to the new Google Sheets are in the Google Sheets column as 'new'. Other labels in the columns indicate where that application categorizes the function, when different from the other. In the Statistics functions, Microsoft introduced major changes, deprecating (planned elimination) some functions and replacing them with new functions (arrows changing from red to green indicate the change).

Category Order: Database / Date (& Time) / Engineering / Financial / Info(rmation) / Logical / Lookup (& Reference) / Array [Google only] / Math (& Trigonometry) / Operator [Google only] / Statistical / Cube [Excel only] / Add-in & Automation [Excel only] / Filter [Google only] / Google [Google only] / Parser [Google only] / Text

FUNCTION NAME	Excel	Google Sheets	DESCRIPTION
Engineering Functions			
BESSELI	X		Returns the modified Bessel In(x)
BESSELJ	X		Returns the Bessel Jn(x)
BESSELK	X		Returns the modified Bessel Kn(x)
BESSELY	X		Returns the Bessel Yn(x)
BIN2DEC	X	X	Converts a binary number to decimal
BIN2HEX	X	X	Converts a binary number to hexadecimal
BIN2OCT	X	X	Converts a binary number to octal
COMPLEX	X		Converts real and imaginary coefficients into a complex number
CONVERT	X		Converts a number from one measurement system to another
DEC2BIN	X	X	Converts a decimal number to binary
DEC2HEX	X	X	Converts a decimal number to hexadecimal
DEC2OCT	X	X	Converts a decimal number to octal
DELTA	X	new	Compare two numeric values, returning 1 if they're equal.
ERF	X		Returns the error function
ERF.PRECISE	X		Returns the error function
ERFC	X	Math	Returns the complementary error function
ERFC.PRECISE	X		Returns the complementary ERF function integrated between x and infinity
GESTEP	X		Tests whether a number is greater than a threshold value
HEX2BIN	X	X	Converts a hexadecimal number to binary
HEX2DEC	X	X	Converts a hexadecimal number to decimal
HEX2OCT	X	X	Converts a hexadecimal number to octal
IMABS	X		Returns the absolute value (modulus) of a complex number
IMAGINARY	X		Returns the imaginary coefficient of a complex number
IMARGUMENT	X		Returns the argument theta, an angle expressed in radians
IMCONJUGATE	X		Returns the complex conjugate of a complex number
IMCOS	X		Returns the cosine of a complex number
IMDIV	X		Returns the quotient of two complex numbers
IMEXP	X		Returns the exponential of a complex number
IMLN	X		Returns the natural logarithm of a complex number
IMLOG10	X		Returns the base-10 logarithm of a complex number
IMLOG2	X		Returns the base-2 logarithm of a complex number
IMPOWER	X		Returns a complex number raised to an integer power
IMPRODUCT	X		Returns the product of complex numbers
IMREAL	X		Returns the real coefficient of a complex number
IMSIN	X		Returns the sine of a complex number
IMSQRT	X		Returns the square root of a complex number
IMSUB	X		Returns the difference between two complex numbers
IMSUM	X		Returns the sum of complex numbers
OCT2BIN	X	X	Converts an octal number to binary
OCT2DEC	X	X	Converts an octal number to decimal
OCT2HEX	X	X	Converts an octal number to hexadecimal













FUNCTION NAME	Excel	Google Sheets	DESCRIPTION
Financial Functions			
ACCRINT	X	X	Calculates the accrued interest of a security that has periodic payments.
ACCRINTM	X	X	Calculates the accrued interest of a security that pays interest at maturity.
AMORDEGRC	X		Returns the depreciation for each accounting period by using a depreciation coefficient
AMORLINC	X		Returns the depreciation for each accounting period
COUPDAYBS	X	X	Calculates the number of days from the first coupon, or interest payment, until settlement.
COUPDAYS	X	X	Calculates the number of days in the coupon, or interest payment, period that contains the specified settlement date.
COUPDAYSNC	X	X	Calculates the number of days from the settlement date until the next coupon, or interest payment.
COUPNCD	X	X	Calculates next coupon, or interest payment, date after the settlement date.
COUPNUM	X	X	Calculates the number of coupons, or interest payments, between the settlement date and the maturity date of the investment.
COUPPCD	X	X	Calculates last coupon, or interest payment, date before the settlement date.
CUMIPMT	X	X	Calculates the cumulative interest over a range of payment periods for an investment based on constant-amount periodic payments and a constant interest rate.
CUMPRINC	X	X	Calculates the cumulative principal paid over a range of payment periods for an investment based on constant-amount periodic payments and a constant interest rate.
DB	X	X	Calculates the depreciation of an asset for a specified period using the arithmetic declining balance method.
DDB	X	X	Calculates the depreciation of an asset for a specified period using the double-declining balance method.
DISC	X	X	Calculates the discount rate of a security based on price.
DOLLARDE	X	X	Converts a price quotation given as a decimal fraction into a decimal value.
DOLLARFR	X	X	Converts a price quotation given as a decimal value into a decimal fraction.
DURATION	X	X	Calculates the number of compounding periods required for an investment of a specified present value appreciating at a given rate to reach a target value.
EFFECT	X	X	Calculates the annual effective interest rate given the nominal rate and number of compounding periods per year.
FV	X	X	Calculates the future value of an annuity investment based on constant-amount periodic payments and a constant interest rate.
FVSCHEDULE	X	X	Calculates the future value of some principal based on a specified series of potentially varying interest rates.
INTRATE	X	X	Calculates the effective interest rate generated when an investment is purchased at one price and sold at another with no interest or dividends generated by the investment itself.
IPMT	X	X	Calculates the payment on interest for an investment based on constant-amount periodic payments and a constant interest rate.
IRR	X	X	Calculates the internal rate of return on an investment based on a series of periodic cash flows.
ISPMT	X	X	Calculates the interest paid during a specific period of an investment
MDURATION	X	X	Calculates the modified Macaulay duration of a security paying periodic interest, such as a US Treasury Bond, based on expected yield.
MIRR	X	X	Calculates the modified internal rate of return on an investment based on a series of periodic cash flows and the difference between the interest rate paid on financing versus the return received on reinvested income.
NOMINAL	X	X	Calculates the annual nominal interest rate given the effective rate and number of compounding periods per year.
NPER	X	X	Calculates the number of payment periods for an investment based on constant-amount periodic payments and a constant interest rate.
NPV	X	X	Calculates the net present value of an investment based on a series of periodic cash flows and a discount rate.
ODDFPRICE	X		Returns the price per \$100 face value of a security with an odd first period
ODDFYIELD	X		Returns the yield of a security with an odd first period
ODDLPRICE	X		Returns the price per \$100 face value of a security with an odd last period
ODDYIELD	X		Returns the yield of a security with an odd last period






















FUNCTION NAME	Excel	Google Sheets	DESCRIPTION
Financial Functions (continued)			
PMT	X	X	Calculates the periodic payment for an annuity investment based on constant-amount periodic payments and a constant interest rate.
PPMT	X	X	Calculates the payment on the principal of an investment based on constant-amount periodic payments and a constant interest rate.
PRICE	X	X	Calculates the price of a security paying periodic interest, such as a US Treasury Bond, based on expected yield.
PRICEDISC	X	X	Calculates the price of a discount (non-interest-bearing) security, based on expected yield.
PRICEMAT	X	X	Calculates the price of a security paying interest at maturity, based on expected yield.
PV	X	X	Calculates the present value of an annuity investment based on constant-amount periodic payments and a constant interest rate.
RATE	X	X	Calculates the interest rate of an annuity investment based on constant-amount periodic payments and the assumption of a constant interest rate.
RECEIVED	X	X	Calculates the amount received at maturity for an investment in fixed-income securities purchased on a given date.
SLN	X	X	Calculates the depreciation of an asset for one period using the straight-line method.
SYD	X	X	Calculates the depreciation of an asset for a specified period using the sum of years digits method.
TBILLEQ	X	X	Calculates the equivalent annualized rate of return of a US Treasury Bill based on discount rate.
TBILLPRICE	X	X	Calculates the price of a US Treasury Bill based on discount rate.
TBILLYIELD	X	X	Calculates the yield of a US Treasury Bill based on price.
VDB	X		Returns the depreciation of an asset for a specified or partial period by using a declining balance method
XIRR	X	X	Calculates the internal rate of return of an investment based on a specified series of potentially irregularly spaced cash flows.
XNPV	X	X	Calculates the net present value of an investment based on a specified series of potentially irregularly spaced cash flows and a discount rate.
YIELD	X	X	Calculates the annual yield of a security paying periodic interest, such as a US Treasury Bond, based on price.
YIELDDISC	X	X	Calculates the annual yield of a discount (non-interest-bearing) security, based on price.
YIELDMAT	X		Returns the annual yield of a security that pays interest at maturity
Info [Google] / Information [Excel] Functions			
CELL	X	new	Returns information about the formatting, location, or contents of a cell
ERROR.TYPE	X	X	Returns a number corresponding to the error value in a different cell.
INFO	X		Returns information about the current operating environment
ISBLANK	X	X	Returns TRUE if the value is blank
ISEMAIL		new	Checks whether a value is a valid email address.
ISERR	X	X	Returns TRUE if the value is any error value except #N/A
ISERROR	X	X	Returns TRUE if the value is any error value
ISEVEN	X	Math	Returns TRUE if the number is even
ISLOGICAL	X	X	Returns TRUE if the value is a logical value
ISNA	X	X	Returns TRUE if the value is the #N/A error value
ISNONTEXT	X	X	Returns TRUE if the value is not text
ISNUMBER	X	X	Returns TRUE if the value is a number
ISODD	X	Math	Returns TRUE if the number is odd
ISREF	X	X	Returns TRUE if the value is a reference
ISTEXT	X	X	Returns TRUE if the value is text
ISURL		new	Checks whether a value is a valid URL.
N	X	X	Returns a value converted to a number
NA	X	X	Returns the error value #N/A
TYPE	X	new	Returns a number indicating the data type of a value






















FUNCTION NAME	Excel	Google Sheets	DESCRIPTION
Logical Functions			
AND	X	X	Returns TRUE if all arguments are TRUE
FALSE	X	X	Returns the logical value FALSE
IF	X	X	Specifies a logical test to perform
IFERROR	X	X	Returns a value you specify if a formula evaluates to an error; otherwise, returns the result of the formula
NOT	X	X	Reverses the logic of its argument
OR	X	X	Returns TRUE if any argument is TRUE
TRUE	X	X	Returns the logical value TRUE
Lookup [Google] / Lookup & Reference [Excel] Functions			
ADDRESS	X	X	Returns a reference as text to a single cell in a worksheet
AREAS	X		Returns the number of areas in a reference
CHOOSE	X	X	Chooses a value from a list of values
COLUMN	X	X	Returns the column number of a specified cell, with 'A=1'.
COLUMNS	X	X	Returns the number of columns in a reference
HLOOKUP	X	X	Horizontal lookup. Searches across the first row of a range for a key and returns the value of a specified cell in the column found.
HYPERLINK	X	X	Creates a hyperlink that opens a document stored on a network server, an intranet, or the Internet
INDEX	X	X	Returns the content of a cell, specified by row and column offset.
INDIRECT	X	X	Returns a reference indicated by a text value
LOOKUP	X	new	Looks through a row or column for a key and returns the value of the cell in a result range located in the same position as the search row or column.
MATCH	X	X	Returns the relative position of an item in a range that matches a specified value.
OFFSET	X	X	Returns a range reference shifted a specified number of rows and columns from a starting cell reference.
ROW	X	X	Returns the row number of a specified cell.
ROWS	X	X	Returns the number of rows in a specified array or range.
RTD	X		Retrieves real-time data from a program that supports COM automation
TRANSPOSE	X	Array	Returns the transpose of an array
VLOOKUP	X	X	Vertical lookup. Searches down the first column of a range for a key and returns the value of a specified cell in the row found.
Array [Google only] Functions			
ARRAY_CONSTRAIN		new	Constrains an array result to a specified size.
ARRAY_LITERAL		new	Returns an array with M rows and N columns from M 1xN arrays.
ARRAY_ROW		new	Returns an array made up of the elements passed in as arguments.
EXPAND		X	Forces the automatic expansion of array formula output as the output size grows.
FREQUENCY	Statistical	X	Calculates the frequency distribution of a one-column array into specified classes.
GROWTH	Statistical	X	Given partial data about an exponential growth trend, fits an ideal exponential growth trend and/or predicts further values.
LINEST	Statistical	X	Given partial data about a linear trend, calculates various parameters about the ideal linear trend using the least-squares method.
LOGEST	Statistical	X	Given partial data about an exponential growth curve, calculates various parameters about the best fit ideal exponential growth curve.
MDETERM	Math & Trig	X	Returns the matrix determinant of a square matrix specified as an array or range.
MINVERSE	Math & Trig	X	Returns the multiplicative inverse of a square matrix specified as an array or range.
MMULT	Math & Trig	X	Calculates the matrix product of two matrices specified as arrays or ranges.
NOEXPAND		X	Prevents the automatic expansion of array formula output as the output size grows.
SUMPRODUCT	Math & Trig	X	Calculates the sum of the products of corresponding entries in two equal-sized arrays or ranges.
SUMX2MY2	Math & Trig	X	Calculates the sum of the differences of the squares of values in two arrays.
SUMX2PY2	Math & Trig	X	Calculates the sum of the sums of the squares of values in two arrays.
SUMXMY2	Math & Trig	X	Calculates the sum of the squares of differences of values in two arrays.
TRANSPOSE	Lookup & Ref	X	Transposes the rows and columns of an array or range of cells.
TREND	Statistical	X	Given partial data about a linear trend, fits an ideal linear trend using the least squares method and/or predicts further values.










FUNCTION NAME	Excel	Google Sheets	DESCRIPTION
Math [Google] / Math & Trigonometry [Excel] Functions			
ABS	X	X	Returns the absolute value of a number
ACOS	X	X	Returns the inverse cosine of a value, in radians.
ACOSH	X	X	Returns the inverse hyperbolic cosine of a number
AGGREGATE	new 2010		Returns an aggregate in a list or database
ASIN	X	X	Returns the inverse sine of a value, in radians.
ASINH	X	X	Returns the inverse hyperbolic sine of a number
ATAN	X	X	Returns the inverse tangent of a value, in radians.
ATAN2	X	X	Returns the angle between the x-axis and a line segment from the origin (0,0) to specified coordinate pair (x-, y-), in radians
ATANH	X	X	Returns the inverse hyperbolic tangent of a number
CEILING	X	X	Rounds a number up to the nearest integer multiple of specified significance.
CEILING.PRECISE	new 2010		Rounds a number the nearest integer or to the nearest multiple of significance. Regardless of the sign of the number, the number is rounded up.
COMBIN	X	X	Returns the number of ways to choose some number of objects from a pool of a given size of objects.
COS	X	X	Returns the cosine of an angle provided in radians.
COSH	X	X	Returns the hyperbolic cosine of any real number.
COUNTBLANK	Statistical	X	Returns the number of empty cells in a given range.
COUNTIF	Statistical	X	Returns a conditional count across a range.
COUNTIFS	Statistical	new	Returns the count of a range depending on multiple criteria.
COUNTUNIQUE		X	Counts the number of unique values in a list of specified values and ranges.
DEGREES	X	X	Converts an angle value in radians to degrees.
ERFC	Engineering	X	Returns the complementary Gauss error function of a value.
EVEN	X	X	Rounds a number up to the nearest even integer
EXP	X	X	Returns Euler's number, e (~2.718) raised to a power.
FACT	X	X	Returns the factorial of a number
FACTDOUBLE	X	X	Returns the double factorial of a number
FLOOR	X	X	Rounds a number down to the nearest integer multiple of specified significance.
FLOOR.PRECISE	new 2010		Rounds a number the nearest integer or to the nearest multiple of significance. Regardless of the sign of the number, the number is rounded up
GAMMALN	Statistical	X	Returns the the logarithm of a specified Gamma function, base e (Euler's number).
GCD	X	X	Returns the greatest common divisor of one or more integers.
INT	X	X	Rounds a number down to the nearest integer
ISEVEN	Information	X	Checks whether the provided value is even.
ISO.CEILING	X		Returns a number that is rounded up to the nearest integer or to the nearest multiple of significance
ISODD	Information	X	Checks whether the provided value is odd.
LCM	X	X	Returns the least common multiple of one or more integers.
LN	X	X	Returns the the logarithm of a number, base e (Euler's number).
LOG	X	X	Returns the logarithm of a number to a specified base
LOG10	X	X	Returns the base-10 logarithm of a number
MDETERM	X	Array	Returns the matrix determinant of an array
MINVERSE	X	Array	Returns the matrix inverse of an array
MMULT	X	Array	Returns the matrix product of two arrays
MOD	X	X	Returns the remainder from division
MROUND	X	X	Rounds one number to the nearest integer multiple of another.
MULTINOMIAL	X	X	Returns the factorial of the sum of values divided by the product of the values' factorials.
ODD	X	X	Rounds a number up to the nearest odd integer

FUNCTION NAME	Excel	Google Sheets	DESCRIPTION
Math [Google] / Math & Trigonometry [Excel] Functions (continued)			
PI	X	X	Returns the value of pi
POWER	X	X	Returns the result of a number raised to a power
PRODUCT	X	X	Returns the result of multiplying a series of numbers together.
QUOTIENT	X	X	Returns the integer portion of a division
RADIANS	X	X	Converts an angle value in degrees to radians.
RAND	X	X	Returns a random number between 0 and 1
RANDBETWEEN	X	X	Returns a random number between the numbers you specify
ROMAN	X		Converts an arabic numeral to roman, as text
ROUND	X	X	Rounds a number to a specified number of digits
ROUNDDOWN	X	X	Rounds a number down, toward zero
ROUNDUP	X	X	Rounds a number up, away from zero
SERIESSUM	X	X	Returns the sum of a power series based on the formula
SIGN	X	X	Given an input number, returns -1 if negative, 1 if positive, and 0 if zero
SIN	X	X	Returns the sine of an angle provided in radians.
SINH	X	X	Returns the hyperbolic sine of a number
SQRT	X	X	Returns the positive square root of a positive number.
SQRTPI	X	X	Returns the positive square root of the product of Pi and the given positive number.
SUBTOTAL	X	X	Returns a subtotal in a list or database
SUM	X	X	Adds its arguments
SUMIF	X	X	Adds the cells specified by a given criteria
SUMIFS	X	new	Adds the cells in a range that meet multiple criteria
SUMPRODUCT	X	Array	Returns the sum of the products of corresponding array components
SUMSQ	X	X	Returns the sum of the squares of a series of numbers and/or cells.
SUMX2MY2	X	Array	Returns the sum of the difference of squares of corresponding values in two arrays
SUMX2PY2	X	Array	Returns the sum of the sum of squares of corresponding values in two arrays
SUMXMY2	X	Array	Returns the sum of squares of differences of corresponding values in two arrays
TAN	X	X	Returns the tangent of an angle provided in radians.
TANH	X	X	Returns the hyperbolic tangent of a number
TRUNC	X	X	Truncates a number to an integer
Operator [Google only] Functions			
ADD		X	Returns the sum of two numbers. Equivalent to the '+' operator.
CONCAT		X	Returns the concatenation of two values. Equivalent to the '&' operator.
DIVIDE		X	Returns one number divided by another. Equivalent to the '/' operator.
EQ		X	Returns 'TRUE' if two specified values are equal and 'FALSE' otherwise. Equivalent to the '=' operator.
GT		X	Returns 'TRUE' if the first argument is strictly greater than the second, and 'FALSE' otherwise. Equivalent to the '>' operator.
GTE		X	Returns 'TRUE' if the first argument is greater than or equal to the second, and 'FALSE' otherwise. Equivalent to the '>=' operator.
LT		X	Returns 'TRUE' if the first argument is strictly less than the second, and 'FALSE' otherwise. Equivalent to the '<' operator.
LTE		X	Returns 'TRUE' if the first argument is less than or equal to the second, and 'FALSE' otherwise. Equivalent to the '<=' operator.
MINUS		X	Returns the difference of two numbers. Equivalent to the '-' operator.
MULTIPLY		X	Returns the product of two numbers. Equivalent to the '*' operator.
NE		X	Returns 'TRUE' if two specified values are not equal and 'FALSE' otherwise. Equivalent to the '!=' operator.
POW		X	Returns a number raised to a power.
UMINUS		X	Returns a number with the sign reversed.
UNARY_PERCENT		X	Returns a value interpreted as a percentage; that is, 'UNARY_PERCENT(100)' equals '1'.
UPLUS		X	Returns a specified number, unchanged..

FUNCTION NAME	Excel	Google Sheets	DESCRIPTION
Statistical Functions			
AVEDEV	X	X	Calculates the average of the magnitudes of deviations of data from a dataset's mean.
AVERAGE	X	X	Returns the numerical average value in a dataset, ignoring text.
AVERAGEA	X	X	Returns the numerical average value in a dataset.
AVERAGEIF	X	new	Returns the average of a range depending on criteria.
AVERAGEIFS	X	new	Returns the average of a range depending on multiple criteria.
BETA.DIST 	new 2010		Returns the cumulative beta distribution function or the beta probability density function
BETADIST	deprecated		Returns the beta cumulative distribution
BETA.INV 	new 2010		Returns the inverse of the cumulative distribution for a specified beta distribution
BETAINV	deprecated		Returns the inverse of the cumulative distribution for a specified beta distribution
BINOM.DIST 	new 2010		Returns the individual term binomial distribution probability
BINOMDIST	deprecated		Returns the individual term binomial distribution probability
BINOMDIST		X	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.
BINOM.INV 	new 2010		Returns the smallest value for which the cumulative binomial distribution is less than or equal to a criterion value
CRITBINOM	deprecated		Returns the smallest value for which the cumulative binomial distribution is less than or equal to a criterion value
CRITBINOM		X	Calculates the smallest value for which the cumulative binomial distribution is greater than or equal to a specified criteria.
CHISQ.DIST 	new 2010		Returns the chi-squared distribution
CHISQ.DIST.RT 	new 2010		Returns the right-tailed probability of the chi-squared distribution
CHIDIST	deprecated		Returns the right-tailed probability of the chi-squared distribution
CHISQ.INV 	new 2010		Returns the inverse of the left-tailed probability of the chi-squared distribution
CHISQ.INV.RT 	new 2010		Returns the inverse of the right-tailed probability of the chi-squared distribution
CHIINV	deprecated		Returns the inverse of the right-tailed probability of the chi-squared distribution
CHISQ.TEST 	new 2010		Returns the test for independence
CHITEST	deprecated		Returns the test for independence
CONFIDENCE.NORM 	new 2010		Returns the confidence interval for a population mean, using a normal distribution
CONFIDENCE	deprecated		Returns the confidence interval for a population mean, using a normal distribution
CONFIDENCE		X	Calculates the width of half the confidence interval for a normal distribution.
CONFIDENCE.T	new 2010		Returns the confidence interval for a population mean, using a Student's t distribution
CORREL	X	X	Calculates r, the Pearson product-moment correlation coefficient of a dataset.
COUNT	X	X	Returns the a count of the number of numeric values in a dataset.
COUNTA	X	X	Returns the a count of the number of values in a dataset.
COUNTBLANK	X	Math	Counts the number of blank cells within a range
COUNTIF	X	Math	Counts the number of cells within a range that meet the given criteria
COUNTIFS	X	Math	Counts the number of cells within a range that meet multiple criteria
COVARIANCE.P 	new 2010		Returns covariance, the average of the products of paired deviations
COVAR	X		Returns covariance, the average of the products of paired deviations
COVAR		X	Calculates the covariance of a dataset.
COVARIANCE.S	new 2010		Returns the sample covariance, the average of the products deviations for each data point pair in two data sets
CRITBINOM		X	Calculates the smallest value for which the cumulative binomial distribution is greater than or equal to a specified criteria.
DEVSQ	X	X	Calculates the sum of squares of deviations based on a sample.
EXPON.DIST 	new 2010		Returns the exponential distribution
EXPONDIST	X		Returns the exponential distribution
EXPONDIST		X	Returns the value of the exponential distribution function with a specified lambda at a specified value.

FUNCTION NAME	Excel	Google Sheets	DESCRIPTION
Statistical Functions (continued)			
F.DIST 	new 2010		Returns the F probability distribution
F.DIST.RT 	new 2010		Returns the (right-tailed) F probability distribution (degree of diversity) for two data sets
FDIST 	X		Returns the (right-tailed) F probability distribution (degree of diversity) for two data sets
F.INV 	new 2010		Returns the inverse of the F probability distribution
F.INV.RT 	new 2010		Returns the inverse of the (right-tailed) F probability distribution
FINV 	X		Returns the inverse of the (right-tailed) F probability distribution
F.TEST 	new 2010		Returns the result of an F-test
FTEST 	X		Returns the result of an F-test
FISHER	X	X	Returns the Fisher transformation of a specified value.
FISHERINV	X	X	Returns the inverse Fisher transformation of a specified value.
FORECAST	X	X	Returns a value along a linear trend
FREQUENCY	X		Returns a frequency distribution as a vertical array
GAMMA.DIST 	new 2010		Returns the gamma distribution
GAMMADIST 	X		Returns the gamma distribution
GAMMA.INV 	new 2010		Returns the inverse of the gamma cumulative distribution
GAMMAINV 	X		Returns the inverse of the gamma cumulative distribution
GAMMALN	X		Returns the natural logarithm of the gamma, $\Gamma(x)$
GAMMALN.PRECISE	new 2010		Returns the natural logarithm of the gamma function, $\Gamma(x)$
GEOMEAN	X	X	Calculates the geometric mean of a dataset.
GROWTH	X		Returns values along an exponential trend
HARMEAN	X	X	Calculates the harmonic mean of a dataset.
HYPGEOM.DIST 	new 2010		Returns the hypergeometric distribution
HYPGEOMDIST 	X		Returns the hypergeometric distribution
HYPGEOMDIST		X	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.
INTERCEPT	X	X	Calculates the y-value at which the line resulting from linear regression of a dataset will intersect the y-axis (x=0).
KURT	X	X	Calculates the kurtosis of a dataset, which describes the shape, and in particular the "peakedness" of that dataset.
LARGE	X	X	Returns the nth largest element from a data set, where n is user-defined.
LINEST	X		Returns the parameters of a linear trend
LOGEST	X		Returns the parameters of an exponential trend
LOGNORM.INV 	new 2010		Returns the inverse of the lognormal cumulative distribution
LOGINV 	X		Returns the inverse of the lognormal distribution
LOGINV		X	Returns the value of the inverse log-normal cumulative distribution with given mean and standard deviation at a specified value.
LOGNORM.DIST 	new 2010		Returns the cumulative lognormal distribution
LOGNORMDIST 	X		Returns the cumulative lognormal distribution
LOGNORMDIST		X	Returns the value of the log-normal cumulative distribution with given mean and standard deviation at a specified value.
MAX	X	X	Returns the maximum value in a numeric dataset.
MAXA	X	X	Returns the maximum numeric value in a dataset.
MEDIAN	X	X	Returns the median value in a numeric dataset.
MIN	X	X	Returns the minimum value in a numeric dataset.
MINA	X	X	Returns the minimum numeric value in a dataset.
MODE.MULT 	new 2010		Returns a vertical array of the most frequently occurring values in an array or range
MODE.SNGL 	new 2010		Returns the most frequently occurring value in an array or range
MODE 	X		Returns the most frequently occurring value in an array or range
MODE		X	Returns the most commonly occurring value in a dataset.

FUNCTION NAME	Excel	Google Sheets	DESCRIPTION
Statistical Functions (continued)			
NEGBINOM.DIST 	new 2010		Returns the negative binomial distribution
NEGBINOMDIST 	X		Returns the negative binomial distribution
NEGBINOMDIST		X	Calculates the probability of drawing a certain number of failures before a certain number of successes given a probability of success in independent trials.
NORM.DIST 	new 2010		Returns the normal cumulative distribution
NORMDIST 	X		Returns the normal cumulative distribution
NORMDIST		X	Returns the value of the normal distribution function (or normal cumulative distribution function) for a specified value, mean, and standard deviation.
NORM.INV 	new 2010		Returns the inverse of the normal cumulative distribution
NORMINV 	X		Returns the inverse of the normal cumulative distribution
NORMINV		X	Returns the value of the inverse normal distribution function for a specified value, mean, and standard deviation.
NORM.S.DIST 	new 2010		Returns the standard normal cumulative distribution
NORMSDIST 	X		Returns the standard normal cumulative distribution
NORMSDIST		X	Returns the value of the standard normal cumulative distribution function for a specified value.
NORM.S.INV 	new 2010		Returns the inverse of the standard normal cumulative distribution
NORMSINV 	X		Returns the inverse of the standard normal cumulative distribution
NORMSINV		X	Returns the value of the inverse standard normal distribution function for a specified value.
PEARSON	X	X	Calculates r, the Pearson product-moment correlation coefficient of a dataset.
PERCENTILE.INC 	new 2010		Returns the k-th percentile of values in a range, where k is in the range 0..1, inclusive
PERCENTILE 	X		Returns the k-th percentile of values in a range (0..1, inclusive)
PERCENTILE		X	Returns the value at a given percentile of a dataset.
PERCENTILE.EXC	new 2010		Returns the k-th percentile of values in a range, where k is in the range 0..1, exclusive
PERCENTRANK.EXC 	new 2010		Returns the rank of a value in a data set as a percentage (0..1, exclusive) of the data set
PERCENTRANK.EXC		new	Returns the percentage rank (percentile) from 0 to 1 exclusive of a specified value in a dataset.
PERCENTRANK.INC 	new 2010		Returns the rank of a value in a data set as a percentage (0..1, inclusive) of the data set
PERCENTRANK.INC		new	Returns the percentage rank (percentile) from 0 to 1 inclusive of a specified value in a dataset.
PERCENTRANK 	X		Returns the rank of a value in a data set as a percentage of the data set
PERCENTRANK		X	Returns the percentage rank (percentile) of a specified value in a dataset.
PERMUT	X	X	Returns the number of ways to choose some number of objects from a pool of a given size of objects, considering order.
POISSON.DIST 	new 2010		Returns the Poisson distribution
POISSON 	X		Returns the Poisson distribution
POISSON		X	Returns the value of the Poisson distribution function (or Poisson cumulative distribution function) for a specified value and mean.
PROB	X	X	Given a set of values and corresponding probabilities, calculates the probability that a value chosen at random falls between two limits.
QUARTILE.EXC	new 2010		Returns the quartile of the data set, based on percentile values from 0..1, exclusive
QUARTILE.INC	new 2010		Returns the quartile of a data set
QUARTILE 	X		Returns the quartile of a data set
QUARTILE			Returns a value nearest to a specified quartile of a dataset.
RANK.AVG 	new 2010		Returns the rank of a number in a list of numbers: its size relative to other values in the list; if more than one value has the same rank, the average rank is returned
RANK.AVG		new	Returns the rank of a specified value in a dataset. If there is more than one entry of the same value in the dataset, the average rank of the entries will be returned.
RANK.EQ 	new 2010		Returns the rank of a number in a list of numbers. Its size is relative to other values in the list; if more than one value has the same rank, the top rank of that set of values is returned
RANK.EQ		new	Returns the rank of a specified value in a dataset. If there is more than one entry of the same value in the dataset, the top rank of the entries will be returned.
RANK 	X		Returns the rank of a number in a list of numbers: its size relative to other values in the list.

FUNCTION NAME	Excel	Google Sheets	DESCRIPTION
Statistical Functions (continued)			
RANK		X	Returns the rank of a specified value in a dataset.
RSQ	X	X	Calculates the square of r, the Pearson product-moment correlation coefficient of a dataset.
SKEW	X	X	Calculates the skewness of a dataset, which describes the symmetry of that dataset about the mean.
SLOPE	X	X	Calculates the slope of the line resulting from linear regression of a dataset.
SMALL	X	X	Returns the nth smallest element from a data set, where n is user-defined.
STANDARDIZE	X	X	Calculates the normalized equivalent of a random variable given mean and standard deviation of the distribution.
STDEV.S 	new 2010		Estimates standard deviation based on a sample
STDEV 	X		Estimates standard deviation based on a sample
STDEV		X	Calculates an estimate of standard deviation based on a sample.
STDEV.P 	new 2010		Calculates standard deviation based on the entire population
STDEVP 	X		Calculates standard deviation based on the entire population
STDEVP		X	Calculates an estimate of standard deviation based on an entire population.
STDEVA	X	X	Estimates standard deviation based on a sample, including numbers, text, and logical values
STDEVPA	X	X	Calculates standard deviation based on the entire population, including numbers, text, and logical values
STEYX	X	X	Returns the standard error of the predicted y-value for each x in the regression
T.DIST	new 2010		Returns the Percentage Points (probability) for the Student t-distribution
T.DIST.2T 	new 2010		Returns the Percentage Points (probability) for the Student t-distribution
T.DIST.RT 	new 2010		Returns the Student's t-distribution
TDIST 	X		Returns the Student's t-distribution
TDIST		new	Calculates the probability for Student's t-distribution with a given input (x).
T.INV 	new 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 	new 2010		Returns the inverse of the Student's t-distribution
TINV 	X		Returns the inverse of the Student's t-distribution
T.TEST 	new 2010		Returns the probability associated with a Student's t-test
TTEST 	X		Returns the probability associated with a Student's t-test
TREND	X		Returns values along a linear trend
TRIMMEAN	X	X	Calculates the mean of a dataset excluding some proportion of data from the high and low ends of the dataset.
VAR.S 	new 2010		Estimates variance based on a sample
VAR 	X		Estimates variance based on a sample
VAR		X	Calculates an estimate of variance based on a sample.
VAR.P 	new 2010		Calculates variance based on the entire population
VARP 	X		Calculates variance based on the entire population
VARP		X	Calculates an estimate of variance based on an entire population.
VARA	X	X	Estimates variance based on a sample, including numbers, text, and logical values
VARPA	X	X	Calculates variance based on the entire population, including numbers, text, and logical values
WEIBULL.DIST 	new 2010		Returns the Weibull distribution
WEIBULL 	X		Calculates variance based on the entire population, including numbers, text, and logical values
WEIBULL		X	Returns the value of the Weibull distribution function (or Weibull cumulative distribution function) for a specified shape and scale.
Z.TEST 	new 2010		Returns the one-tailed probability-value of a z-test
ZTEST 	X		Returns the one-tailed probability-value of a z-test
ZTEST		X	Returns the two-tailed P-value of a Z-test with standard distribution.

FUNCTION NAME	Excel	Google Sheets	DESCRIPTION
Cube [Excel only] Functions			
CUBEKPIMEMBER	X		Returns a key performance indicator (KPI) name, property, and measure, and displays the name and property in the cell. A KPI is a quantifiable measurement, such as monthly gross profit or quarterly employee turnover, used to monitor an organization's performance
CUBEMEMBER	X		Returns a member or tuple in a cube hierarchy. Use to validate that the member or tuple exists in the cube
CUBEMEMBERPROPERTY	X		Returns the value of a member property in the cube. Use to validate that a member name exists within the cube and to return the specified property for this member
CUBERANKEDMEMBER	X		Returns the nth, or ranked, member in a set. Use to return one or more elements in a set, such as the top sales performer or top 10 students
CUBESET	X		Defines a calculated set of members or tuples by sending a set expression to the cube on the server which creates the set, and then returns that set to Excel
CUBESETCOUNT	X		Returns the number of items in a set.
CUBEVALUE	X		Returns an aggregated value from a cube.
Add-in & Automation [Excel only] Functions			
CALL	X		Calls a procedure in a dynamic link library or code resource
EUROCONVERT	X		Converts a number to euros, converts a number from euros to a euro member currency, or converts a number from one euro member currency to another by using the euro as an intermediary (triangulation)
GETPIVOTDATA	X		Returns data stored in a PivotTable report
REGISTER.ID	X		Returns the register ID of the specified dynamic link library (DLL) or code resource that has been previously registered
SQL.REQUEST	X		Connects with an external data source and runs a query from a worksheet, then returns the result as an array without the need for macro programming
Filter [Google only] Functions			
FILTER		X	Returns a filtered version of the source range, returning only rows or columns which meet the specified conditions.
SORT		X	Sorts the rows of a given array or range by the values in one or more columns.
UNIQUE		X	Returns unique rows in the provided source range, discarding duplicates. Rows are returned in the order in which they first appear in the source range.
Google [Google only] Functions			
ARRAYFORMULA		X	Enables the display of values returned from an array formula into multiple rows and/or columns and the use of non-array functions with arrays.
CONTINUE		X	Returns a specified cell from an array formula result.
DETECTLANGUAGE		X	Identifies the language used in text within the specified range.
GOOGLECLOCK		X	Returns the current system date and time and updates automatically once per minute.
GOOGLEFINANCE		X	Fetches current or historical securities information from Google Finance.
GOGLETOURNAMENT		X	Returns data for March Madness (NCAA Division I Basketball Championship) games.
GOOGLETRANSLATE		X	Translates text from one language into another/
IMAGE		X	Inserts an image into a cell.
IMPORTDATA		X	Imports data at a given url in .csv (comma-separated value) or .tsv (tab-separated value) format.
IMPORTFEED		X	Imports a RSS or ATOM feed.
IMPORTHTML		X	Imports data from a table or list within an HTML page.
IMPORTRANGE		X	Imports a range of cells from a specified spreadsheet.
IMPORTXML		X	Imports data from any of various structured data types including XML, HTML, CSV, TSV, and RSS and ATOM XML feeds.
QUERY		X	Runs a Google Visualization API Query Language query across data.
SPARKLINE		X	Creates a miniature chart contained within a single cell.
Parser [Google only] Functions			
TO_DATE		X	Converts a provided number to a date.
TO_DOLLARS		X	Converts a provided number to a dollar value.
TO_PERCENT		X	Converts a provided number to a percentage.
TO_PURE_NUMBER		X	Converts a provided date/time, percentage, currency or other formatted numeric value to a pure number without formatting.
TO_TEXT		X	Converts a provided numeric value to a text value.

FUNCTION NAME	Excel	Google Sheets	DESCRIPTION
Text functions			
ARABIC		X	Computes the value of a Roman numeral.
ASC	X		Changes full-width (double-byte) English letters or katakana within a character string to half-width (single-byte) characters
BAHTTEXT	X		Converts a number to text, using the ฿ (baht) currency format
CHAR	X	X	Convert a number into a character according to the current Unicode table.
CLEAN	X	new	Removes all nonprintable characters from text
CODE	X	X	Returns the numeric Unicode map value of the first character in the string provided.
CONCATENATE	X	X	Joins several text items into one text item
DOLLAR	X		Converts a number to text, using the \$ (dollar) currency format
DOLLAR		X	Formats a number into the locale-specific currency format.
EXACT	X	X	Checks to see if two text values are identical (case-sensitive)
FIND	X	X	Returns the position at which a string is first found within text (case-sensitive)
FINDB	X	new	Finds one text value within another (case-sensitive) [for use with double-byte character sets {Japanese, Chinese, Korean}]
FIXED	X	X	Formats a number as text with a fixed number of decimals
JIS	X		Changes half-width (single-byte) English letters or katakana within a character string to full-width (double-byte) characters
JOIN		X	Concatenates the elements of one or more one-dimensional arrays using a specified delimiter.
LEFT	X	X	Returns the leftmost characters from a text value
LEFTB	X		Returns the leftmost characters from a text value (counts each double-byte character as 2 when language settings allow)
LEN	X	X	Returns the length of a string.
LENB	X		Returns the number of characters in a text string (counts each double-byte character as 2 when language settings allow)
LOWER	X	X	Converts text to lowercase
MID	X	X	Returns a specific number of characters from a text string starting at the position you specify (counts each character, whether single-byte or double-byte, as 1, regardless of default language setting)
MIDB	X		Returns a specific number of characters from a text string starting at the position you specify (counts each double-byte character as 2 when language settings allow)
PHONETIC	X		Extracts the phonetic (furigana) characters from a text string
PROPER	X	X	Capitalizes the first letter in each word of a text value
REGEXEXTRACT		X	Extracts matching substrings according to a regular expression.
REGEXMATCH		X	Whether a piece of text matches a regular expression.
REGEXREPLACE		X	Replaces part of a text string with a different text string using regular expressions.
REPLACE	X	X	Replaces part of a text string with a different text string.
REPLACEB	X		Replaces characters within text (counts each double-byte character as 2 when language settings allow)
REPT	X	X	Repeats text a given number of times
RIGHT	X	X	Returns the last character or characters in a text string, based on the number of characters you specify
RIGHTB	X		Returns the last character or characters in a text string, based on the number of bytes you specify
SEARCH	X	X	Finds one text value within another (not case-sensitive) — counts each character, whether single-byte or double-byte, as 1, regardless of default language setting
SEARCHB	X	new	Finds one text value within another (not case-sensitive) — counts each double-byte character as 2 when language settings allow
SPLIT		X	Divides text around a specified character or string, and puts each fragment into a separate cell in the row.
SUBSTITUTE	X	X	Substitutes new text for old text in a text string
T	X	X	Converts its arguments to text
TEXT	X	X	Converts a number into text according to a specified format.
TRIM	X	X	Removes leading and trailing spaces in a specified string.
UPPER	X	X	Converts text to uppercase
VALUE	X	X	Converts a text argument to a number