

AppleWorks vs Numbers Functions

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APPLEWORKS	Description	Format	Notes	NUMBERS	Description	Format	Notes
Time, Date & Duration				Time, Date & Duration			
DATE	Calculates a serial number for the specified date			DATE	Combines separate values for year, month, and day and returns a date/time value.	DATE (year, month, day)	
DATETOTEXT							
				DATEDIF			
				DATEVALUE			
DAY	Returns the day of the month represented by a date serial number or contents of a date-formatted cell	Day(date)		DAY	returns the day of the month for a given date/time	DAY(date)	Numbers uses the date directly
DAYNAME	Returns a text day name from a number 1-7	DAYNAME(num)		DAYNAME	Returns a text day name from a number 1-7 or from a date	DAYNAME(num) DAYNAME(date)	
DAYOFYEAR	Converts a date serial number or contents of a date-formatted cell to day of year 1-366	DAYOFYEAR(date)					You can use INT (YEARFRAC (date1,date2)*365) where date1 is dec 31 of the prior year
				DAYS360			
				EDATE			
				EOMONTH			
HOUR	Converts the time portion of a serial number or date/time formatted cell to an hour 1-23	HOUR(date/time)		HOUR	Returns the hour 1-23 for a given date/time	HOUR(date/time)	
MINUTE	Converts the time portion of a serial number or date/time formatted cell to minutes	MINUTE(date/time)		MINUTE	Returns the minutes for a given date/time	MINUTE(date/time)	
MONTH	Returns the number of the Month 1-12 from a date serial number or contents of a date-formatted cell	MONTH(num) MONTH(date)		MONTH	Returns the number of the Month 1-12 from the contents of a date-formatted cell	MONTH(num) MONTH(date)	
MONTHNAME	Converts a month's number to its name	MONTH(num)		MONTHNAME	Converts a month's number to its name	MONTH(num)	
				NETWORKDAYS			
NOW	Returns current date & time from system clock	NOW()		NOW	Returns current date & time from system clock		
SECOND	Converts the time portion of a serial number or date/time formatted cell to seconds	SECOND(date/time)		SECOND	Converts the time portion of a serial number or date/time formatted cell to seconds	SECOND(date/time)	

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TIME	converts a specified time (24 hr clock) to a serial number	TIME(time)		TIME	Converts separate values for hrs, mins, sec to a date/time value	TIME(hr,min,sec)	
TIMETOTEXT	Converts a time serial number to text.						
				TIMEVALUE			
				TODAY			
WEEKDAY	Returns the day of the week 1-7 from a date/time serial number or contents of a dateformatted cell	WEEKDAY(date,time)		WEEKDAY	Returns the day of the week 1-7 from a date/time	WEEKDAY(date,time)	
WEEKOFYEAR	Returns the week of the year from a date/time serial number or contents of a dateformatted cell	WEEKOFYEAR(date)		WEEKNUM	Returns the week of the year from a date/time	WEEKNUM (date,option)	Note difference in function name; it will not be imported but replaced by the last calculated value
				WORKDAY			
YEAR	Returns the year from a date/time serial number or contents of a dateformatted cell	YEAR(date/time)		YEAR	Returns the year from a date/time	YEAR(date/time)	
				YEARFRAC			
				DUR2DAYS			
				DUR2HOURS			
				DUR2MILLISECONDS			
				DUR2DAYS			
				DUR2MINUTES			
				DUR2SECONDS			
				DUR2WEEKS			
				DURATION			
				STRIPDURATION			
Engineering				Engineering			
BASETONUM	Converts a number from the specified base to base 10	BASETONUM (convert-string,base)		BASETONUM	Converts a number from the specified base to base 10	BASETONUM (convert-string,base)	
				BESSELJ			
				BESSELY			
				BIN2DEC			
				BIN2HEX			
				BIN2OCT			
				CONVERT			
				DEC2BIN			
				DEC2HEX			

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				DEC2OCT			
				DELTA			
				ERF			
				ERFC			
				GESTEP			
				HEX2BIN			
				HEX2DEC			
				HEX2OCT			
NUMTOBASE	Converts a decimal number to the specified base	NUMTOBASE (decimal-num,base,option)		NUMTOBASE	Converts a decimal number to the specified base	NUMTOBASE (decimal-num,base,option)	
NUMTOTEXT	Converts a number to a text string	NUMTOTEXT(num)					
				OCT2BIN			
				OCT2DEC			
				OCT2HEX			
				Financial			
				ACCRINT			
				ACCRINTM			
				BONDDURATION			
				BONDMDURATION			
				COUPDAYBS			
				COUPDAYS			
				COUPDAYSNC			
				COUPNUM			
				CUMIPMT			
				CUMPRINC			
				DB			
				DDB			
				DISC			
				EFFECT			
FV	The FV function returns the future value of an investment based on a series of regular periodic cash flows (payments of a constant amount and all cash flows at constant intervals) and a fixed interest rate.	FV(periodic-rate, num-periods, payment, present-value, option)		FV	The FV function returns the future value of an investment based on a series of regular periodic cash flows (payments of a constant amount and all cash flows at constant intervals) and a fixed interest rate.	FV(periodic-rate, num-periods, payment, present-value, option)	
				INTRATE			
				IPMT			

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APPLEWORKS	Description	Format	Notes	NUMBERS	Description	Format	Notes
IRR	Internal rate of return for an investment based on a series of potentially irregular cash flows	IRR(cash-flows, optional-estimate)		IRR	Internal rate of return for an investment based on a series of potentially irregular cash flows	IRR(cash flows, optional-estimate)	
				IPMT			
				ISPMT			
MIRR	Modified internal rate of return for an investment based on a series of potentially irregular cash flows	MIRR(safe-rate,risk-rate,cash flows)	NOTE different order of arguments in AW vs Numbers. Also In AW cash-flows can be multiple non-contiguous cells; b1,b3,d5 or a range c1:c5	MIRR	Internal rate of return for an investment based on a series of potentially irregular cash flows		NOTE different order of arguments in AW vs Numbers. Also In Numbers cash-flows must be a range e.g. c1:c5
				NOMINAL			
NPER	Returns the number of payment periods for a loan or annuity based on a series of identical periodic payments at a fixed interest rate.	NPER(periodic-rate, payment, present value, future-value, option)		NPER	Returns the number of payment periods for a loan or annuity based on a series of identical periodic payments at a fixed interest rate.	NPER(periodic-rate, payment, present value, future-value, option)	
NPV	Returns the net present value of an investment based on varying cash flows at regular time intervals	NPV(rate,cash flows)	cash-flows can be multiple non-contiguous cells; b1,b3,d5 or a range c1:c5	NPV	Returns the net present value of an investment based on varying cash flows at regular time intervals	NPV(rate,cash flows)	cash-flows can be multiple non-contiguous cells; b1,b3,d5 or a range c1:c5
PMT	Calculates payments given,interest rate, number of payments present value, future value.	PMT(rate,num-payments,pres-value,future-value,option)		PMT	Calculates payments given,interest rate, number of payments present value, future value.	PMT(rate,num-payments,pres-value,future-value,option)	
				PPMT			
				PRICE			
				PRICEDISC			
				PRICEMAT			
PV	Calculates the present value of an investment or annuity based on a fixed interest rate and series of regular oeriod cash flows.	PV(Periodic-rate,num-periods,payment, future-value, option)		PV	Calculates the present value of an investment or annuity based on a fixed interest rate and series of regular oeriod cash flows.	PV(Periodic-rate,num-periods,payment, future-value, option)	

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APPLEWORKS	Description	Format	Notes	NUMBERS	Description	Format	Notes
ISNA	Tests the contents of a cell for the #N/A Not Available error condition	ISNA(cell)					
ISNUMBER	Determines whether an expression is a number or not	ISNUMBER(value)					
				ISODD			
ISTEXT	Determines whether an expression is text or not	ISTEXT(value)					You can use the T function, which will return the text string if there is one, or a blank if not
NOT	Returns the opposite of the Boolean value of the expression, i.e. True if the expression is false and vice-versa.	NOT(expression)		NOT	Returns the opposite of the Boolean value of the expression, i.e. True if the expression is false and vice-versa.	NOT(expression)	
OR	Returns TRUE if any argument is true, FALSE otherwise.	OR(expression, expression, ...)		OR	Returns TRUE if any argument is true, FALSE otherwise.	OR(expression, expression, ...)	
				TRUE			
Numeric				Numeric			
ABS	Returns the absolute value of a number	ABS(num)		ABS	Returns the absolute value of a number	ABS(num)	
				CEILING			
				COMBIN			
				EVEN			
EXP	Returns <i>e</i> raised to the specified power	EXP(exponent)		EXP	Returns <i>e</i> raised to the specified power	EXP(exponent)	
FACT	Returns the factorial of a positive integer	INT(integer)		FACT	Returns the factorial of the positive integer part of a number	INT(num)	The number will be truncated to an integer if it is not one.
				FACTDOUBLE			
				FLOOR			
FRAC	Returns the part of a number to the right of the decimal point.	FRAC(num)					Use INT(a1)-a1
				GCD			
INT	Truncates a number to an integer	INT(num)		INT	Truncates a number to an integer		
				LCM			
LN	Returns the natural logarithm of a number.	LN(num)		LN	Returns the natural logarithm of a number.	LN(num)	

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LOG	Returns logarithm of a number using a specified base.	LOG(num,base)		LOG	Returns logarithm of a number using a specified base.	LOG(num,base)	
LOG10	Returns the base 10 logarithm of a number.	LOG10(num)		LOG10	Returns the base 10 logarithm of a number.	LOG10(num)	
MOD	Returns the remainder from a division	MOD(dividend, divisor)		MOD	Returns the remainder from a division	MOD(dividend, divisor)	
				MROUND			
				MULTINOMIAL			
				ODD			
PI	Returns the value of Pi	PI()		PI	Returns the value of Pi	PI()	
				POWER			
PRODUCT	Returns the product of 1 or more numbers	PRODUCT(num, num, ...)		PRODUCT	Returns the product of 1 or more numbers	PRODUCT(num, num, ...)	
				QUOTIENT			
RAND	Generates a random number between 1 and the optional argument or between 0 and 1 if the argument is left out	RAND(option)	If the option is included there may be a problem	RAND	Generates a random number between 0 and 1	RAND()	
				RANDBETWEEN			
				ROMAN			
ROUND	Returns a number rounded to the specified number of digits to the right of the decimal point.	ROUND(num,digits)		ROUND	Returns a number rounded to the specified number of digits to the right of the decimal point.	ROUND(num,digits)	
				ROUNDDOWN			
				ROUNDUP			
SIGN	Returns 1 if the number is positive, -1 if negative and 0 if 0	SIGN(num)		SIGN	Returns 1 if the number is positive, -1 if negative and 0 if 0	SIGN(num)	
SQRT	Returns the square root of a positive number	SQRT(num)		SQRT	Returns the square root of a positive number	SQRT(num)	
				SQRTPI			
SUM	Returns the sum of numbers	SUM(num, num, ...)	The arguments can be multiple individual cells and/or a range	SUM	Returns the sum of numbers	SUM(num, num, ...)	The arguments can be multiple individual cells and/or a range. dates and durations are also allowed
				SUMIF			
				SUMIFS			
				SUMPRODUCT			
				SUMSQ			
				SUMX2MY2			
				SUMX2PY2			
				SUMXMY2			

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TRUNC	Truncates a number to the specified number of digits to the right of the decimal.	TRUNC(num,digits)		TRUNC	Truncates a number to the specified number of digits to the right of the decimal.	TRUNC(num,digits)	
Reference				Reference			
				ADDRESS			
				AREAS			
CHOOSE	Returns the value specified by the argument index-num from a list of values	CHOOSE(index-num,value1, value2, ...)		CHOOSE	Returns the value specified by the argument index-num from a list of values	CHOOSE(index-num,value1, value2, ...)	
COLUMN	Returns the column number of the cell specified	COLUMN(cell)		COLUMN	Returns the column number of the cell specified	COLUMN(cell)	
				COLUMNS			
HLOOKUP	Searches for a specific value in the top row of a range of cells. If a match is found, a specified offset is added to the row number of the matched cell, and the function returns the value in that cell.	HLOOKUP(search-value,cell-range, offset , option)		HLOOKUP	Searches for a specific value in the top row of a range of cells. If a match is found, the function returns the value in cell in the same coulumn and the specified return-row.	HLOOKUP(search-value,cell-range, return-row , option)	
				HYPERLINK			
INDEX	Returns the value at the intersection of the specified row and column in a range of cells or an array.	INDEX(range, row, column)		INDEX	Returns the value at the intersection of the specified row and column in a range of cells or an array.	INDEX(range, row, column, area-index)	The Numbers function contains an additional fourth argument, but it's optional and should not cause any problems.
				INDIRECT			
LOOKUP	Searches for a specific value within a range of cells, and if found, returns the value in the cell in the same relative position in a second range of cells.	LOOKUP(search-value, search-range, result-range)		LOOKUP	Searches for a specific value within a range of cells, and if found, returns the value in the cell in the same relative position in a second range of cells.	LOOKUP(search-value, search-range, result-range)	
MATCH	Searches for a specific value within a range of cells. If found it returns the location of the value in that range.	MATCH(search-value, search range, option)		MATCH	Searches for a specific value within a range of cells. If found it returns the location of the value in that range.	MATCH(search-value, search range, option)	
				OFFSET			
ROW	Returns the row number of the specified cell	ROW(cell)		ROW	Returns the row number of the specified cell	ROW(cell)	
				ROWS			

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				TRANSPOSE			
VLOOKUP	Searches for a specific value in the leftmost column of a range of cells. If a match is found, a specified offset is added to the column number of the matched cell, and the function returns the value in that cell.	VLOOKUP(search-value,cell-range, offset , option)		VLOOKUP	Searches for a specific value in the leftmost column of a range of cells. If a match is found, the function returns the value in cell in the same row and the specified return-column.	VLOOKUP(search-value,cell-range, return-column , option)	
Statistical				Statistical			
				AVEDEV			
AVERAGE	Returns the average of a collection of values	AVERAGE(value1, value2, ...)	The arguments can be multiple individual cells and/or a range	AVERAGE	Returns the average of a collection of values	AVERAGE(value1, value2, ...)	The arguments can be multiple individual cells and/or a range. dates and durations are also allowed
				AVERAGEA			
				AVERAGEIF			
				AVERAGEIFS			
				BETADIST			
				BETAINV			
				BINOMDIST			
				CHIDIST			
				CHINV			
				CHITEST			
				CONFIDENCE			
				CORREL			
COUNT	Returns the number of non-empty cells	COUNT(value1, value2, ...)	The arguments can be multiple individual cells and/or a range	COUNT	Returns the number of cells that contain numbers, numeric expressions or dates	COUNT(value1, value2, ...)	Use the COUNTA function in numbers, which is the equivalent of COUNT in AW
COUNT2	Searches for the specified value, then searches the remaining arguments and counts the number of occurances of the specified value	COUNT2(value1, value2, ...)	The arguments can be multiple individual cells and/or a range				Can construct a similar function using COUNTIF
				COUNTA			
				COUNTBLANK			
				COUNTIF			
				COUNTIFS			
				COVAR			

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				CRITBINOM			
				DEVSQ			
				EXPONDIST			
				FDIST			
				FINV			
				FORECAST			
				FREQUENCY			
				GAMMADIST			
				GAMMAINV			
				GAMMALN			
				GEOMEAN			
				HARMEAN			
				INTERCEPT			
				LARGE			
				LINEST			
				LOGINV			
				LOGNORMDIST			
MAX	Returns the largest number in the list of values	MAX(num1, num2, ...)	The arguments can be multiple individual cells and/or a range. Also works for dates	MAX	Returns the largest number in the list of values	MAX(num1, num2, ...)	The arguments can be multiple individual cells and/or a range
				MAXA			
				MEDIAN			
MIN	Returns the smallest number in the list of values	MIN(num1, num2, ...)	The arguments can be multiple individual cells and/or a range	MIN	Returns the smallest number in the list of values	MIN(num1, num2, ...)	The arguments can be multiple individual cells and/or a range
				MINA			
				MODE			
				NEGBINOMDIST			
				NORMSDIST			
				NORMSINV			
				PERCENTILE			
				PERCENTRANK			
				PERMUT			
				POISSON			
				PROB			
				QUARTILE			
				RANK			
				SLOPE			
				SMALL			
				STANDARDIZE			
STDEV	Computes the standard deviation of a collection of values	STDEV(value1, value2, ...)	The arguments can be multiple individual cells and/or a range	STDEV	Computes the standard deviation of a collection of values	STDEV(value1, value2, ...)	The arguments can be multiple individual cells and/or a range

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MID	Returns the specified number of characters from within a text string starting at the specified position from the left	MID(text-string, start-pos, num-characters)		MID	Returns the specified number of characters from within a text string starting at the specified position from the left	MID(text-string, start-pos, num-characters)	
PROPER	Capitalizes the first character in each word in the text string.	PROPER(text-string)		PROPER	Capitalizes the first character in each word in the text string.	PROPER(text-string)	
REPLACE	Replaces old text with new text for the specified number of characters starting at the specified position	REPLACE(old-text, start-num, num-characters, new-text)		REPLACE	Replaces old text with new text for the specified number of characters starting at the specified position	REPLACE(old-text, start-num, num-characters, new-text)	
REPT	Repeats the text a specified number of times	REPT(text-string, num)		REPT	Repeats the text a specified number of times	REPT(text-string, num)	
RIGHT	Returns the specified number of characters from the text string starting at the right	RIGHT(text-string, num-characters)		RIGHT	Returns the specified number of characters from the text string starting at the right	RIGHT(text-string, num-characters)	
				SEARCH			
				SUBSTITUTE			
		see note for ISTE ^T		T			
TEXTTODATE	Converts a text string to a date serial number	TEXTTODATE(text)					
TEXTTONUM	Converts text to a number. Retains commas, currency signs and decimals	TEXTTONUM(text)					
TEXTTOTIME	Converts text string to a time serial number	TEXTTOTIME(text)					
TRIM	Removes all leading and trailing spaces and reduces all internal multiple spaces to single spaces in a text string	TRIM(text-string)		TRIM	Removes all leading and trailing spaces and reduces all internal multiple spaces to single spaces in a text string	TRIM(text-string)	
UPPER	Converts lower case characters in the text string to upper case	UPPER(text-string)		UPPER	Converts lower case characters in the text string to upper case	UPPER(text-string)	
				VALUE			
<i>Trigonometric</i>				<i>Trigonometric</i>			
ACOS	Computes an angle in radians corresponding to the given cosine	ACOS(cosine)		ACOS	Computes an angle in radians corresponding to the given cosine	ACOS(cosine)	
				ACOSH			

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ASIN	Computes an angle in radians corresponding to the given sine	ASIN(sine)		ASIN	Computes an angle in radians corresponding to the given sine	ASIN(sine)	
				ASINH			
				ATAN			
				ASINH			
ATAN	Computes an angle in radians corresponding to the given tangent	ATAN(tan)		ATAN	Computes an angle in radians corresponding to the given tangent	ATAN(tan)	
ATAN2				ATAN2			
				ATANH			
COS	Computes the cosine of an angle given in radians	COS(radians)		COS	Computes the cosine of an angle given in radians	COS(radians)	
				COSH			
DEGREES	Converts an angle given in degrees to radians	DEGREES(radians)		DEGREES	Converts an angle given in degrees to radians	DEGREES(radians)	
RADIANS	Converts an angle given in radians to degrees	RADIANS(degrees)		RADIANS	Converts an angle given in radians to degrees	RADIANS(degrees)	
SIN	Computes the sine of an angle given in radians	SIN(radians)		SIN	Computes the sine of an angle given in radians	SIN(radians)	
				SINH			
TAN	Computes the tangent of an angle given in radians	TAN(radians)		TAN	Computes the tangent of an angle given in radians	TAN(radians)	
				TANH			
Other				Other			
ALERT	Displays a message in a dialog box and returns a value indicating which button was clicked to close the box	ALERT("Message text", type)					
BEEP	Sounds the computer alert sound	BEEP()					
MERGEFIELD	Merges AW database field into spreadsheet cell	MERGEFIELD (fieldname)					
NA	Returns the text #N/A (not available)	NA()					
TYPE	Returns a number corresponding to one of four types of data in a cell, blank, logical, number or text	Type(cell)					