Excel Formulas X

Count

Count between dates by age range	**COUNTIFSFINDLEFTRIGHT**
Count cells between dates	**COUNTIFSDATE**
Count cells between two numbers	**COUNTIFSCOUNTIF**
Count cells equal to	**COUNTIF**
Count cells equal to case sensitive	**SUMPRODUCTEXACT**
Count cells equal to either x or y	**COUNTIF**
Count cells equal to one of many things Count cells greater than	**COUNTIFSUMPRODUCT** **COUNTIF**
Count cells less than	**COUNTIF**
Count cells not between two numbers	**COUNTIFSUMPRODUCT**
Count cells not equal to	**COUNTIF**
Count cells not equal to many things	**MATCHISNASUMPRODUCTCOUNTACOUNTIF**

Excel Formulas X

Count

Count cells greater than	**COUNTIF**
Count cells less than	**COUNTIF**
Count cells not between two numbers	**COUNTIFSUMPRODUCT**
Count cells not equal to	**COUNTIF**
Count cells not equal to many things	**MATCHISNASUMPRODUCTCOUNTACOUNTIF**
Count cells not equal to x or y	**COUNTIFSSUMPRODUCT**
Count cells over 100 characters	**SUMPRODUCTLENN**
Count cells that are blank	**COUNTBLANKCOUNTA**
Count cells that are not blank	**COUNTACOUNTIFCOUNTIFS**
Count cells that begin with	**COUNTIFCOUNTIFS**
Count cells that contain either x or y	**COUNTIFSUMPRODUCTISNUMBERFIND**
Count cells that contain errors	**SUMPRODUCTISERRORISERRSUM**

Excel Formulas X

Count

Count cells that contain five characters	**COUNTIF**
Count cells that contain negative numbers	**COUNTIF**
Count cells that contain numbers	**OUNTSUMPRODUCT**
Count cells that contain odd numbers	**SUMPRODUCTMOD**
Count cells that contain positive numbers	**COUNTIF**
Count cells that contain specific text	**COUNTIFSUMPRODUCTFINDISNUMBER**
Count cells that contain text	**TIFISTEXTSUMPRODUCTCOUNTIFS**
Count cells that do not contain	**COUNTIF**
Count cells that do not contain errors	**ISERRORNOTSUMPRODUCTISERR**
Count cells that do not contain many strings	**ISNUMBERSEARCHMMULTTRANSPOSE**
Count cells that end with	**COUNTIF**
Count dates by day of week	**SUMPRODUCTWEEKDAY**

Excel Formulas **X**

Count

Count dates in given year	**YEARSUMPRODUCT**
Count if row meets internal criteria	**SUMPRODUCT**
Count if row meets multiple internal criteria	**SUMPRODUCT**
Count if two criteria match	**COUNTIFSSUMPRODUCT**
Count items in list	**COUNTIFS**
Count long numbers without COUNTIF	**SUMPRODUCTCOUNTIF**
Count matches between two columns	**SUMPRODUCT**
Count matching values in matching columns	**SUMPRODUCTISNUMBERMATCHSEARCH**
Count multiple criteria with NOT logic	**SUMPRODUCTISNAMATCH**
Count numbers by range with COUNTIFS	**COUNTIFS**
Count numbers that begin with	**SUMPRODUCTLEFT**
Count numbers third digit equals 3	**SUMPRODUCTMID**

Excel Formulas X

Count

Count occurrences in entire workbook	**COUNTIFSUMPRODUCT**
Count paired items in listed combinations	**COUNTIFSCONCAT**
Count rows that contain specific values	**MMULTCOLUMNTRANSPOSE**
Count rows with at least n matching values	**MMULTCOLUMNTRANSPOSE**
Count rows with multiple OR criteria	**SUMPRODUCT**
Count rows with OR logic	**SUMPRODUCT**
Count sold and remaining	**COUNTA**
Count total matches in two ranges	**SUMPRODUCTCOUNTIF**
Count unique dates	**UNIQUECOUNTCOUNTIFSUMPRODUCT**
Count unique numeric values in a range	**FREQUENCYSUMCOUNTIF**
Count unique numeric values with criteria	**FREQUENCYSUM**
Count unique text values in a range	**FREQUENCYMATCHROWSUMPRODUCT**
Two-way summary count with COUNTIFS	**COUNTIFS**

Excel Formulas X

Count

Count unique text values with criteria	FREQUENCYMATCHROWSUM
Count unique values in a range with COUNTIF	SUMPRODUCTCOUNTIF
Count visible rows in a filtered list	SUBTOTAL
Count visible rows only with criteria	SUBTOTALOFFSETSUMPRODUCT
COUNTIF with non-contiguous range	COUNTIFINDIRECT
COUNTIFS with multiple criteria and OR logic	COUNTIFS
Histogram with FREQUENCY	FREQUENCY
Running count of occurrence in list	COUNTIF
Summary count by month with COUNTIFS	COUNTIFSEDATE
Summary count of non-blank categories	COUNTIFS
Summary count with COUNTIF	COUNTIF
Summary count with percentage breakdown	COUNTIFCOUNTA
SUMPRODUCT count multiple OR criteria	SUMPRODUCT

Excel Formulas   **X**

Sum

3D sum multiple worksheets	SUM
3D SUMIF for multiple worksheets	SUMPRODUCTSUMIFINDIRECT
Calculate running total	SUM
Subtotal by color	SUMIF
Subtotal by invoice number	SUMIFCOUNTIF
Subtotal invoices by age	SUMIF
Sum bottom n values	SUMPRODUCTSMALLSUMROWINDIRECT
Sum bottom n values with criteria	SMALLSUM
Sum by group	SUMIF
Sum by month	SUMIFSEOMONTH
Sum by month ignore year	SUMPRODUCTMONTH
Sum by month in columns	SUMIFSEOMONTH

Excel Formulas   X

Sum

Sum by week	**SUMIFS**
Sum by week number	**SUMIFSWEEKNUM**
Sum by weekday	**SUMPRODUCTWEEKDAY**
Sum columns based on adjacent criteria Sum entire column	**SUMPRODUCT**
	SUM
Sum every n rows	**SUMOFFSET**
Sum every nth column	**SUMPRODUCTCOLUMNMOD**
Sum first n matching values	**FILTERSEQUENCEINDEXSUM**
Sum formulas only	**SUMPRODUCTISFORMULANOT**
Sum if begins with	**SUMIFSUMIFS**
Sum if between	**SUMIFS**
Sum if by year	**SUMIFSDATE**

Excel Formulas X

Sum

Sum if cell contains text in another cell	SUMIFSUMIFS
Sum if cells are equal to	SUMIFSUMIFS
Sum if cells are not equal to	SUMIFSUMIFS
Sum if cells contain an asterisk	SUMIFSUMIFS
Sum if cells contain both x and y	SUMIFS
Sum if cells contain either x or y	SUMIFSSUMPRODUCTISNUMBER FINDSEARCH
Sum if cells contain specific text	SUMIFSUMIFS
Sum if date is between	SUMIFSDATE
Sum if date is greater than	SUMIFSUMIFSDATE
Sum if ends with	SUMIFSUMIFS
Sum if equal to either x or y	SUMIFSUMPRODUCT
Sum if equal to one of many things	SUMIFSUMPRODUCT

Excel Formulas X

Sum

Sum if greater than	**SUMIF SUMIFS**
Sum if less than	**SUMIFSUMIFS**
Sum if multiple criteria	**SUMIFS**
Sum if not blank	**SUMIFSUMIFS**
Sum if one criteria multiple columns	**SUMPRODUCT**
Sum last n columns	**INDEXCOLUMNSUM**
Sum matching columns	**SUMPRODUCTLEFT**
Sum matching columns and rows	
Sum sales in last 30 days by ID	**SUMPRODUCT**
Sum through n months	**SUMIFSTODAY**
Sum top n values	**OFFSETSUM**
Sum top n values with criteria	**SUMPRODUCTLARGESUMROW INDIRECT SUMPRODUCTLARGE**

Excel Formulas   **X**

Sum

Sum visible rows in a filtered list

SUMIFS with horizontal range

SUMIFS with multiple criteria and OR logic

SUMPRODUCT with IF

SUBTOTAL

SUMIFS

SUMIFSSUM

SUMPRODUCT

Excel Formulas   X

Average

Average and ignore errors	**AVERAGEIFAGGREGATE**
Average by month	**AVERAGEIFSEOMONTH**
Average if criteria not blank	**AVERAGEIFS**
Average last 5 values	**OFFSETCOUNTAVERAGE**
Average last 5 values in columns	**OFFSETCOUNTAVERAGE**
Average numbers	**AVERAGE**
Average numbers ignore zero	**AVERAGEIFAVERAGEIFS**
Average pay per week	**SUMPRODUCTCOUNTIF**

Excel Formulas X

Average

Average response time per month	**AVERAGEIFSEOMONTH**
Average the last 3 numeric values	**LOOKUPLARGEROWAVERAGEINDIRECT**
Average top 3 scores	**LARGEAVERAGE**
Average with multiple criteria	**AVERAGEIFS**
Moving average formula	**OFFSETAVERAGEMIN**
Must pass 4 out of 6 subjects	**IFCOUNTIFAND**
Weighted average	**SUMPRODUCTSUMAVERAGE**

Excel Formulas X

Dynamic array

Basic filter example	FILTER
Combine ranges	INDEXSEQUENCEROWSCOLUMNSLET
Count unique values	UNIQUECOUNTA
Count unique values with criteria	UNIQUEFILTERLENSUMCOUNTA
Distinct values	UNIQUE
Extract common values from two lists	FILTERCOUNTIFUNIQUESORT
Filter and transpose horizontal to vertical	FILTERTRANSPOSE
Filter by date	FILTERMONTH
Filter contains one of many	FILTERISNUMBERMATCH
Filter data between dates	FILTER
Filter every nth row	FILTERSEQUENCEMODROW

Excel Formulas X

Dynamic array

Filter exclude blank values	**FILTER**
Filter horizontal data	**FILTERTRANSPOSE**
FILTER on first or last n values	**FILTERSEQUENCEINDEX**
FILTER on top n values	**FILTERLARGESORT**
FILTER on top n values with criteria	**FILTERLARGESORT**
Filter on upcoming birthdays	**FILTERSORTBYLETTEXTINDEXSEQUENCE**
Filter text contains	**FILTERSEARCHISNUMBER**
Filter this or that	**FILTER**
Filter to extract matching values	**FILTERCOUNTIFCOUNTIFS**
FILTER to remove columns	**FILTERMATCHISNUMBER**
FILTER with complex multiple criteria	**FILTERLEFTMONTHNOT**

Excel Formulas X

Dynamic array

Filter with exact match	FILTERSEARCHISNUMBER
FILTER with multiple OR criteria	FILTERISNUMBERMATCH
Generate random text strings	SORTBYRANDARRAYCOUNTASEQUENCECHAR
Get column totals	MMULTSEQUENCECOLUMNS
Get row totals	MMULTSEQUENCECOLUMNS
LAMBDA append range	LAMBDALETINDEXSEQUENCE
LAMBDA append range horizontal	LAMBDALETINDEXSEQUENCE
LAMBDA contains one of many	LAMBDASUMPRODUCTSUMISNUMBERSEARCH
LAMBDA contains which things	LAMBDALETISNUMBERSEARCHSORTBY
LAMBDA count words	LAMBDASUBSTITUTETRIMLEN
LAMBDA replace characters recursive	LAMBDALEFTMIDLEN

Excel Formulas X

Dynamic array

LAMBDA split text to array	**LAMBDAFILTERXMLTRANSPOSE**
LAMBDA strip characters	**LAMBDALETMIDMATCHISNUMBER**
Minimum value if unique	**UNIQUEMINCOUNTIFIF**
Random list of names	**SORTBYRANDARRAYCOUNTASEQUENCE**
Sequence of days	**SEQUENCEWORKDAY.INTL**
Sequence of months	**SEQUENCEEDATEEOMONTH**
Sequence of times	**SEQUENCETIME**
Sequence of years	**SEQUENCEYEARMONTHDAY**
Sort birthdays by month and day Sort by custom list	**SORTBYTEXT**
	SORTBYMATCH
Sort by one column	**SORT**

Excel Formulas X

Dynamic array

Sort by random	SORTBYRANDARRAYCOUNTA
Sort by two columns	SORTBY
Sort text by length	SORTBYLEN
Sort values by columns	SORTSORTBY
Unique values	UNIQUE
Unique values by count	UNIQUEFILTERCOUNTIF
Unique values ignore blanks	UNIQUEFILTER
Unique values with criteria	UNIQUEFILTER
Unique values with multiple criteria	UNIQUEFILTER
UNIQUE with non-adjacent columns XLOOKUP match any column	FILTERUNIQUESORT MMULTSEQUENCECOLUMNS

Excel Formulas X

Min and Max

Cap percentage between 0 and 100	MINMAXMEDIANIF
First in, last out times	MINIFSMAXIFSMAX IF
Large with criteria	LARGE
Larger of two values	MAX
Max of every nth column	MAXCOLUMNMOD
Max value ignore all errors	AGGREGATEMAXIFS
Max value in given month	MAXIFAGGREGATETEXTINDEX MATCH
Max value on given weekday	MAXIFAGGREGATE
Max value with variable column	INDEXMATCHMAXFILTERCOUNTIF
Maximum if multiple criteria	MAXIFMAXIFS
Maximum value	MAXMAXIFS
Maximum value if	MAXIFMAXIFS

Excel Formulas X

Min and Max

Minimum difference if not blank	MINIFMINIFS
Minimum if multiple criteria	MINIFMINIFS
Minimum value	MIN
Minimum value if	MINIFMINIFS
Name of nth largest value	LARGEINDEXMATCHXLOOKUP
Name of nth largest value with criteria nth largest value	LARGEINDEXMATCHIFXLOOKUP
nth largest value with criteria	LARGE
nth largest value with duplicates	LARGE
nth smallest value	MAXIF
nth smallest value with criteria	SMALL
Smaller of two values	SMALL
	MIN

Excel Formulas X

Lookup

Approximate match with multiple criteria	INDEX MATCH IF
Basic INDEX MATCH approximate	INDEX MATCH
Basic INDEX MATCH exact	INDEX MATCH
Basic Tax Rate calculation with VLOOKUP	VLOOKUP
Break ties with helper column and COUNTIF	SMALL INDEX MATCH
Calculate grades with VLOOKUP	VLOOKUP
Calculate shipping cost with VLOOKUP	VLOOKUP
Case sensitive lookup	EXACT INDEX MATCH XLOOKUP
Commission split formula example	VLOOKUP
Count missing values	COUNTIF SUMPRODUCT MATCH ISNA
Dynamic lookup table with INDIRECT	INDIRECT VLOOKUP
Exact match lookup with INDEX and MATCH	INDEX MATCH EXACT

Excel Formulas X

Lookup

Exact match lookup with SUMPRODUCT	**SUMPRODUCTEXACT**
Extract all matches with helper column	**INDEXMATCHANDSUM**
Extract all partial matches	**INDEXAGGREGATEISNUMBERSEARCH**
Extract multiple matches into separate columns	**INDEXSMALLIFERRORROWCOLUMNS**
Extract multiple matches into separate rows	**INDEXSMALLIFERRORROWROWS**
Faster VLOOKUP with 2 VLOOKUPS	**VLOOKUPNA**
Find closest match	**INDEXMATCHABSMINXLOOKUP**
Find longest string in column	**INDEXMATCHMAXLEN**
Find longest string with criteria	**INDEXMATCHMAXLEN**
Find lowest n values	**SMALLINDEXMATCH**
Find missing values	**COUNTIFVLOOKUPMATCH**
First match in range with wildcard	**INDEXMATCH**

Excel Formulas X

Lookup

Get address of lookup result	**INDEXMATCHCELL**
Get cell content at given row and column	**ADDRESSINDIRECTINDEX**
Get employee information with VLOOKUP	**VLOOKUP**
Get first match cell contains	**INDEXMATCHISNUMBERSEARCHAGGREGATE**
Get first non-blank value in a list	**INDEXMATCHISBLANK**
Get first text value in a list	**VLOOKUP**
Get first text value with HLOOKUP	**HLOOKUP**
Get information corresponding to max value	**MAXMATCHINDEX**
Get last match	**INDEXMATCHMAXROW**
Get last match cell contains	**LOOKUPSEARCH**
Get location of value in 2D array	**SUMPRODUCTROWCOLUMN**
Get nth match	**SMALLIFMINROW**

Excel Formulas X

Lookup

Get nth match with INDEX / MATCH	INDEXSMALL
Get nth match with VLOOKUP	VLOOKUPCOUNTIF
INDEX and MATCH descending order	INDEXMATCH
Index and match on multiple columns	MMULTCOLUMNTRANSPOSEINDEX
INDEX and MATCH with multiple criteria	INDEXMATCH
INDEX with variable array	INDEXMATCHCHOOSE
Join tables with INDEX and MATCH	INDEXMATCH
Left lookup with INDEX and MATCH	INDEXMATCH
Left lookup with VLOOKUP	VLOOKUPCHOOSE
Lookup and sum column	INDEXMATCHSUM
Lookup entire column	INDEXMATCH
Lookup entire row	INDEXMATCH

Excel Formulas **X**

Lookup

Lookup last file version	**LOOKUPISNUMBERFIND**
Lookup latest price	**LOOKUP**
Lookup lowest Monday tide	**INDEXMATCHIFMINXLOOKUP**
Lookup lowest value	**INDEXMATCHMIN**
Lookup up cost for product or service	**VLOOKUP**
Lookup value between two numbers	**LOOKUP**
Lookup with variable sheet name	**VLOOKUPINDIRECT**
Match first does not begin with	**INDEXMATCHLEFT**
Match first error	**MATCHISERROR**
Match first occurrence does not contain	**INDEXMATCHISNUMBERSEARCH**
Match long text	**MATCHLEFTMIDEXACT**
Match next highest value	**INDEXMATCH**

Excel Formulas X

Lookup

Max if criteria match	MAXIFMAXIFS
Merge tables with VLOOKUP	VLOOKUP
Multi-criteria lookup and transpose	INDEXMATCH
Multiple chained VLOOKUPs	VLOOKUPIFERROR
Multiple matches in comma separated list	TEXTJOIN
Nearest location with XMATCH	INDEXXMATCH
Next largest match with the MATCH function	INDEXMATCH
Partial match with numbers and wildcard	MATCHTEXT
Partial match with VLOOKUP	VLOOKUP
Position of first partial match	MATCHINDEX
Position of max value in list	MAXMATCH
Reverse VLOOKUP example	VLOOKUPCHOOSEINDEXMATCHXLOOKUP

Excel Formulas X

Lookup

Self-contained VLOOKUP	VLOOKUP
Sum lookup values using SUMIF	SUMIFSUMPRODUCT
Sum range with INDEX	INDEXSUM
SUMIFS multiple criteria lookup in table	SUMIFS
Two-way approximate match multiple criteria	INDEXMATCHIF
Two-way lookup with INDEX and MATCH	INDEXMATCH
Two-way lookup with VLOOKUP	VLOOKUPMATCH
VLOOKUP by date	VLOOKUP
VLOOKUP from another sheet	VLOOKUP
VLOOKUP from another workbook	VLOOKUP
VLOOKUP if blank return blank	VLOOKUPIF
VLOOKUP override output	VLOOKUP

Excel Formulas X

Lookup

VLOOKUP with 2 lookup tables	VLOOKUP
VLOOKUP with multiple criteria	VLOOKUP
VLOOKUP with numbers and text	VLOOKUPTEXTIFERROR
VLOOKUP with two client rates	VLOOKUP
VLOOKUP without #N/A error	VLOOKUPIFERRORIFNA
XLOOKUP basic approximate match	XLOOKUP
XLOOKUP basic exact match	XLOOKUP
XLOOKUP case-sensitive	XLOOKUPEXACT
XLOOKUP date of max value	XLOOKUPINDEXMATCH
XLOOKUP horizontal lookup	XLOOKUP
XLOOKUP last match	XLOOKUP
XLOOKUP latest by date	XLOOKUPMAX
XLOOKUP lookup left	XLOOKUP

Excel Formulas

Lookup

XLOOKUP lookup row or column	**XLOOKUP**
XLOOKUP match text contains	**XLOOKUPSEARCHFINDISNUMBER**
XLOOKUP rearrange columns	**XLOOKUP**
XLOOKUP two-way exact match	**XLOOKUPINDEXMATCH**
XLOOKUP wildcard match example	**XLOOKUPTRANSPOSE**
XLOOKUP with boolean OR logic	**XLOOKUP**
XLOOKUP with complex multiple criteria	**FILTERLEFTMONTHNOT**
XLOOKUP with logical criteria	**XLOOKUP**
XLOOKUP with multiple criteria	**XLOOKUP**
XMATCH reverse search	**XMATCHINDEX**
Zodiac sign lookup	**INDEXMATCHTEXTDATEVALUEIFNAYEAR**

Excel Formulas X

If

If cell begins with x, y, or z	SUMCOUNTIF
If cell contains	IF
if cell contains this or that	COUNTIFSUM
If cell equals	IF
If cell is blank	IFISBLANK
If cell is greater than	IF
If cell is not blank	IFISBLANKNOT
If cell is this OR that	IFOR
If cell is x or y and z	IFORAND
If else	IF
If not blank multiple cells	IFISBLANKNOT
If NOT this or that	IFORNOT

Excel Formulas X

If

If this AND that	IFAND
If this AND that OR that	IFANDOR
IF with boolean logic	IF
IF with other calculations	IFSUMANDAVERAGE
IF with wildcards	IF
Invoice status with nested if	IFTODAY
Nested IF function example	IF
Nested IF with multiple AND	IFANDOR
Only calculate if not blank	IFISBLANKCOUNTBLANKANDORCOUNT
Return blank if	IFISBLANKCOUNTBLANK
Show checkmark if complete	IFISBLANKNOT
Tax rate calculation with fixed	IF
base Two-tier sales tax calculation	IF
Win loss points calculation	VLOOKUPIF

Excel Formulas

Grouping

Categorize text with keywords	INDEXMATCHISNUMBERSEARCHXLOOKUP
Group arbitrary text values	VLOOKUP
Group numbers at uneven intervals	LOOKUP
Group numbers with VLOOKUP	VLOOKUP
Group times into 3 hour buckets	FLOOR
Group times into unequal buckets	VLOOKUP
If cell contains one of many things	INDEXMATCHISNUMBERSEARCH
Map inputs to arbitrary values	VLOOKUPCHOOSE
Map text to numbers	VLOOKUP
Running count group by n size	COUNTACEILING

Excel Formulas

Conditional formatting

Highlight 3 smallest values with criteria	SMALLAND
Conditional formatting column is blank	ORANDNOT
Conditional formatting date past due	TODAY
Conditional formatting dates overlap	SUMPRODUCT
Find duplicate values in two columns	COUNTIFAND
Gantt chart	AND
Gantt chart by week	AND
Gantt chart time schedule	ANDOR
Gantt chart with weekends	WEEKDAY

Excel Formulas X

Conditional formatting

Highlight approximate match lookup conditional formatting	**LOOKUPORAND**
Highlight blank cells	**ISBLANKLEN**
Highlight bottom values	**SMALL**
Highlight cells that begin with	**COUNTIFFINDIFERROR**
Highlight cells that contain	**SEARCHFINDISNUMBER**
Highlight cells that contain one of many	**SEARCHFINDISNUMBERSUMPRODUCT**
Highlight cells that end with	**COUNTIFRIGHTLENEXACT**
Highlight cells that equal	**EXACT**
Highlight column differences	**EXACTNOT**
Highlight data by quartile	**QUARTILE**
Highlight dates between	**DATEAND**
Highlight dates greater than	**DATE**

Excel Formulas X

Conditional formatting

Highlight dates in same month and year	DATETEXT
Highlight dates in the next N days	TODAYAND
Highlight dates that are weekends	WEEKDAYOR
Highlight duplicate columns	SUMPRODUCTCOUNTIF
Highlight duplicate rows	COUNTIFSCOUNTIFSUMPRODUCT
Highlight duplicate values	COUNTIF
Highlight every other row	ISEVENISODDROWMOD
Highlight integers only	MOD
Highlight missing values	COUNTIF
Highlight multiples of specific value	MOD
Highlight numbers that include symbols	ISNUMBERMID

Excel Formulas X

Conditional formatting

Highlight row and column intersection exact match	ORAND
Highlight rows that contain	SEARCHFIND
Highlight rows with blank cells	COUNTBLANK
Highlight rows with dates between	DATEAND
Highlight top values	LARGE
Highlight unique values	COUNTIF
Highlight unprotected cells	CELL
Highlight values between	AND
Highlight values not between X and Y	ANDNOT
Shade alternating groups of n rows	ROWCEILINGISEVENISODD

Excel Formulas

Data validation

Data validation allow numbers only	ISNUMBER
Data validation allow text only	ISTEXT
Data validation allow uppercase only	UPPEREXACTAND
Data validation allow weekday only	YEARTODAY
Data validation date in next 30 days	ANDTODAY
Data validation date in specific year	YEARTODAY
Data validation don't exceed total	SUM
Data validation exists in list	COUNTIF
Data validation must begin with	EXACTLEFTCOUNTIF
Data validation must contain specific text	FINDISNUMBER
Data validation must not contain	ISNUMBERSEARCHSUMPRODUCT
Data validation must not exist in list	COUNTIF

Excel Formulas X

Data validation

Data validation no punctuation	FINDCOUNT
Data validation number multiple 100	MOD
Data validation only dates between	ANDDATE
Data validation require unique number	ANDISNUMBERCOUNTIF
Data validation specific characters only	MATCHCOUNTLENMIDINDIRECT
Data validation unique values only	COUNTIF
Data validation whole percentage only	TRUNCAND
Data validation with conditional list	IF

Excel Formulas **X**

Rank

Rank function example	**RANK**
Rank if formula	**COUNTIFSRANK**
Rank race results	**RANK**
Rank values by month	**LARGEINDEXMATCHTEXTIF**
Rank with ordinal suffix	**CHOOSEABSMOD**
Rank without ties	**RANKCOUNTIF**

Excel Formulas X

Round

Get decimal part of a number	TRUNC
Get integer part of a number	TRUNCINT
Get number at place value	MOD
Round a number	ROUND
Round a number down	ROUNDDOWN
Round a number down to nearest multiple	FLOOR
Round a number to n significant digits	ROUNDLOG10INTABS
Round a number to nearest multiple	MROUND
Round a number up	ROUNDUP
Round a number up to nearest multiple	CEILING

Excel Formulas X

Round

Round a number up to next half	**CEILING**
Round a price to end in .99	**ROUNDMROUND**
Round by bundle size	**CEILING**
Round price to end in .45 or .95	**CEILING**
Round time to nearest 15 minutes	**MROUNDCEILINGFLOOR**
Round to nearest 1000	**ROUND**
Round to nearest 5	**MROUNDCEILINGFLOOR**

Excel Formulas X

Date and Time

Add business days to date	**WORKDAYNETWORKDAYS**
Add days exclude certain days of	**WORKDAY.INTL**
week Add days to date	**DAY**
Add decimal hours to time	**TIMEMOD**
Add decimal minutes to time	**TIMEMOD**
Add months to date	**EDATE**
Add workdays no weekends	**WORKDAY.INTLNETWORKDAYS**
Add workdays to date custom	**WORKDAY.INTLNETWORKDAYS**
weekends Add years to date	**DATEYEARMONTHDAY**
Assign points based on late time	**IFVALUE**
Basic timesheet formula with breaks	**MOD**
Calculate date overlap in days	**MAXMIN**

Excel Formulas   X

Date and Time

Calculate days remaining	TODAY
Calculate expiration date	EOMONTHEDATE
Calculate number of hours between two	IFMOD
times Calculate retirement date	EDATEEOMONTH
Calculate years between dates	YEARFRACINT
Convert date string to date time	DATEVALUELEFTMIDTIMEVALUE
Convert date to Julian format	DATEYEARTEXT
Convert date to month and year	TEXT
Convert date to text	TEXT

Excel Formulas   X

Date and Time

Convert Excel time to Unix time

Convert text date dd/mm/yy to mm/dd/yy Convert text timestamp into time

Convert text to date

Convert time to time zone

Convert Unix time stamp to Excel date

Count birthdays by month

Count calls at specific times

DATE

DATELEFTMIDRIGHTTRIM

TIMEMID

DATELEFTMIDRIGHT

MOD

DATE

SUMPRODUCTMONTH

COUNTIFS

Excel Formulas X

Date and Time

Count dates in current month	COUNTIFSEOMONTHSUMPRODUCTN
Count day of week between dates	WEEKDAYROWINDIRECTSUMPRODUCTSEQUENCE
Count holidays between two dates	SUMPRODUCT
Count times in a specific range	COUNTIFSTIME
Create date range from two dates	TEXTIF
Custom weekday abbreviation	WEEKDAYCHOOSE
Date is same month	MONTH
Date is same month and year	MONTHYEAR
Date is workday	WORKDAYWORKDAY.INTL
Days in month	DAYEOMONTH
Display the current date	TODAY

Excel Formulas X

Date and Time

Display the current date and time	NOW
Dynamic calendar grid	WEEKDAYCHOOSETODAY
Dynamic date list	TODAYROWS
Extract date from a date and time	INTTRUNC
Extract time from a date and time	MOD
Get age from birthday	DATEDIFTODAYDATEYEARFRACINT
Get date from day number	DATERIGHTLEFT
Get day from date	DAY
Get day name from date	TEXTWEEKDAYCHOOSE
Get days before a date	TODAY
Get days between dates	TODAYDAYS
Get days between dates ignoring years	DATEDIF

Excel Formulas X

Date and Time

Get days, hours, and minutes between dates	INTTEXT
	DATEDIF
Get days, months, and years between dates Get earliest and latest project dates	MINIFSMAXIFSMINMAXIF
	DAYEOMONTH
	EOMONTH
Get first day of month	MONTHCHOOSE
Get first day of previous month	MONTHYEAR
Get fiscal quarter from date	EOMONTHDATE
Get fiscal year from date	EOMONTHWEEKDAY
Get last day of month	WEEKDAYEOMONTH
Get last weekday in month	WEEKDAY
Get last working day in month	MONTHDATE
Get Monday of the week	
Get month from date	

Excel Formulas   X

Date and Time

Get month name from date	MONTHCHOOSETEXT
Get months between dates	DATEDIF
Get most recent day of	MOD
week Get next day of week	WEEKDAY
Get next scheduled event	MINIFMINIFSINDEXMATCH
Get nth day of week in	DAYWEEKDAY
month Get nth day of year	DATEYEAR
Get percent of year	YEARFRACYEARDATE
complete Get project end	WORKDAYWORKDAY.INTL
date	WORKDAYWORKDAY.INTL
Get project midpoint	WORKDAYWORKDAY.INTL
Get project start date	MONTHROUNDUP
Get quarter from date	

Excel Formulas X

Date and Time

Get same date next monthEDATE

Get same date next yearEDATE

Get week number from dateWEEKNUMISOWEEKNUM

Get work hours between datesNETWORKDAYSNETWORKDAYS.INTL

Get work hours between dates and timesNETWORKDAYSNETWORKDAYS.INTL

Get work hours between dates custom scheduleMIDROWINDIRECTWEEKDAYSUMPRODUCT Get workdays between dates**NETWORKDAYSNETWORKDAYS.INTL

Get year from dateYEAR

If Monday, roll back to FridayWEEKDAYIF

Join date and textTEXT

Last n daysANDTODAY

Last n monthsANDTODAYEOMONTH

Excel Formulas X

Date and Time

Last n weeks	ANDTODAYWEEKDAY
Last updated date stamp	TEXTTODAY
List holidays between two dates	TEXTJOINIF
Month number from name	MONTHDATEVALUE
Next anniversary date	EDATEDATEDIF
Next biweekly payday from date	CEILING
Next business day 6 months in future	WORKDAYWORKDAY.INTL
Next working day	WORKDAYWORKDAY.INTL
Pad week numbers with zeros	TEXTWEEKNUM
Parse time string to time	TIMERIGHTLEFTMID
Sum race time splits	SUM
Sum time by week and project	SUMIFS

Excel Formulas X

Date and Time

Sum time over 30 minutesSUMPRODUCTTIMESUMIFSCOUNTIFS

Sum time with SUMIFSSUMIFS

Time difference in hours as decimal valueMOD

Time duration with daysTIME

Timesheet overtime calculation formulaMIN

Total hours that fall between two timesMINMAX

Workdays per monthNETWORKDAYSNETWORKDAYS.INTLEOMONTH

Working days in yearNETWORKDAYSNETWORKDAYS.INTLDATETODAY

Working days left in monthNETWORKDAYSNETWORKDAYS.INTLTODAY

Year is a leap yearDATEYEARMONTH

Excel Formulas X

Date series

Series of dates by custom days	**WORKDAY.INTL**
Series of dates by month	**DAYMONTHYEARDATEEOMONTH**
Series of dates by weekends	**WORKDAY.INTLWEEKDAY**
Series of dates by workdays	**WORKDAYNETWORKDAYS.INTLIFWEEKDAY**
Series of dates by year	**DAYMONTHYEARDATE**

Excel Formulas X

Text

Abbreviate names or words	TEXTJOINMIDROWCODELENINDIRECT
Add a line break with a formula	CHAR
Add line break based on OS	INFOCHAR
Capitalize first letter	LEFTMIDLEN
Cell contains all of many things	SUMPRODUCTISNUMBERSEARCHCOUNTA
Cell contains number	FINDCOUNT
Cell contains one of many things	SUMPRODUCTISNUMBERSEARCH
Cell contains one of many with exclusions	SUMPRODUCTISNUMBERSEARCH
Cell contains some words but not others	COUNTSEARCHAND
Cell contains specific text	SEARCHISNUMBERFIND
Cell contains which things	SEARCHISNUMBERFILTERTEXTJOIN
Cell equals one of many things	SUMPRODUCT
Clean and reformat telephone numbers	SUBSTITUTE

Excel Formulas X

Text

Compare two strings	EXACT
Conditional message with REPT function	REPTIFAND
Convert numbers to text	TEXT
Convert string to array	MIDROWLENINDIRECT
Convert text to numbers	VALUELEFTRIGHT
Count keywords cell contains	SUMPRODUCTMATCHISNUMBERSEARCH
Count line breaks in cell	LENSUBSTITUTECHARISBLANK
Count specific characters in a cell	LENSUBSTITUTEUPPER
Count specific characters in a range	LENSUBSTITUTEUPPERSUMPRODUCT
Count specific words in a cell	LENSUBSTITUTEUPPER
Count specific words in a range	LENSUBSTITUTEUPPERSUMPRODUCT
Count total characters in a cell	LEN

Excel Formulas X

Text

Count total characters in a range	LENSUMPRODUCT
Count total words in a cell	LENSUBSTITUTETRIM
Count total words in a range	SUMPRODUCTLENSUBSTITUTETRIM
Double quotes inside a formula	CHAR
Extract last two words from cell	MIDLENSUBSTITUTEFIND
Extract multiple lines from a cell	TRIMMIDSUBSTITUTEREPTLEN
Extract nth word from text string	TRIMMIDSUBSTITUTEREPTLEN
Extract substring	MID
Extract text between parentheses	MIDSEARCH
Extract word containing specific text	MIDMAXFINDSUBSTITUTEREPTTRIM
Extract word that begins with specific character	MIDLENFINDSUBSTITUTEREPTTRIM
Find and replace multiple values	SUBSTITUTEINDEX

Excel Formulas X

Text

Find nth occurrence of character	**SUBSTITUTEFINDCHAR**
Get first word	**LEFTFINDISERROR**
Get last line in cell	**TRIMSUBSTITUTERIGHTREPTCHAR**
Get last word	**TRIMSUBSTITUTERIGHTREPT**
Join cells with comma	**TRIMSUBSTITUTETEXTJOIN**
MAC address format	**TEXTJOINSEQUENCEMID**
Most frequent text with criteria	**INDEXMATCHMODEIF**
Most frequently occurring text	**INDEXMATCHMODE**
Normalize text	**SUBSTITUTETRIMLOWER**
Pad text to equal length	**REPTLEN**
Position of 2nd 3rd etc instance of character	**SUBSTITUTEFIND**
Remove characters from right	**LEFTLENVALUE**
Remove file extension from filename	**LEFTFIND**

Excel Formulas X

Text

Remove first character	**REPLACERIGHTLENLEFT**
Remove last word	**MIDFINDSUBSTITUTELEN**
Remove leading and trailing spaces from text	**CLEANTRIMSUBSTITUTE**
Remove line breaks	**SUBSTITUTECLEAN**
Remove text by matching	**SUBSTITUTE**
Remove text by position	**REPLACE**
Remove text by variable position	**REPLACEFIND**
Remove unwanted characters	**SUBSTITUTECHARCODELEFT**
Replace one character with another	**SUBSTITUTE**
Reverse text string	**TEXTJOINMIDINDIRECTSEQUENCE**
Split dimensions into three parts	**LEFTRIGHTMIDLENSUBSTITUTE**
Split dimensions into two parts	**SUBSTITUTELEFTRIGHTFIND**

Excel Formulas

Text

Split numbers from units of measure	**MAXLEFTRIGHTISNUMBERVALUEMID**
Split text and numbers	**FINDMINRIGHTLEFT**
Split text string at specific character	**LEFTRIGHTLENFIND**
Split text with delimiter	**TRIMMIDSUBSTITUTEREPTLEN**
Strip html from text or numbers	**MIDLEN**
Strip non-numeric characters	**TEXTJOINMIDROWINDIRECT**
Strip numeric characters from cell	**TEXTJOINMIDROWINDIRECTSEQUENCELET**
Text split to array	**FILTERXMLSUBSTITUTETRANSPOSE**
Translate letters to numbers	**TEXTJOINVLOOKUPMIDROWT**
Trim text to n words	**LEFTSUBSTITUTEFIND**

Excel Formulas   X

Financial

Annual compound interest schedule	FV
Annuity solve for interest rate	RATE
Bond valuation example	PVFVPRICE
CAGR formula examples	GEOMEANRRI
Calculate compound interest	FV
Calculate cumulative loan interest	CUMIPMT
Calculate cumulative loan principal payments	CUMPRINC
Calculate interest for given period	PPMT
Calculate interest rate for loan	RATE
Calculate loan interest in given year	CUMIPMT
Calculate original loan amount	PV
Calculate payment for a loan	PMT

Excel Formulas

Financial

Calculate payment periods for loan	**NPER**
Calculate periods for annuity	**PMTPVFV**
Calculate principal for given period	**PPMT**
Compare effect of compounding periods	**FV**
Effective annual interest rate	**EFFECTRRI**
Estimate mortgage payment	**PMTPVFV**
Future value of annuity	**FVPV**
Future value vs. Present value	**PVFV**
Income tax bracket calculation	**VLOOKUP**
NPV formula for net present value	**NPV**
Payment for annuity	**PMTPVFV**
Present value of annuity	**PVFV**

Excel Formulas X

Geometry

Area of a circle	**PIPOWER**
Circumference of a circle	**PI**
Distance formula	**SQRT**
Surface area of a cone	**PIPOWER**
Surface area of a cylinder	**PIPOWER**
Surface area of a sphere	**PIPOWER**
Volume of a cone	**PIPOWER**
Volume of a cylinder	**PIPOWER**

Excel Formulas X

Geometry

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Volume of a cylinder	**PIPOWER**
Volume of a sphere	**PIPOWER**

Excel Formulas

Workbook

Dynamic workbook reference	**INDIRECT**
Dynamic worksheet reference	**INDIRECT**
Get full workbook name and path	**CELL**
Get sheet name only	**CELLMIDFIND**
Get workbook name and path without sheet	**CELLLEFTFINDSUBSTITUTE**
Get workbook name only	**CELLMIDFIND**
Get workbook path only	**CELLLEFTFIND**
Indirect named range different sheet	**INDIRECT**
List sheet index numbers	**SHEET**
List sheet names with formula	**INDEXMIDROWNOWT**
Worksheet name exists	**ISREFINDIRECT**

Excel Formulas

Internet

Create email address from name	**LEFTLOWER**
Create email address with name and domain	**LEFTLOWER**
Get domain from email address	**RIGHTLENFIND**
Get domain name from URL	**LEFTFIND**
Get name from email address	**LEFTFIND**
Get page from URL	**TRIMRIGHTSUBSTITUTEREPT**
Get top level domain (TLD)	**RIGHTLENSUBSTITUTEFIND**
Remove trailing slash from url	**LENRIGHTLEFT**
Strip protocol and trailing slash from URL	**MIDRIGHTLENFIND**

Excel Formulas X

Names

Get first name from name	**LEFTFIND**
Get first name from name with comma	**RIGHTLENFIND**
Get last name from name	**RIGHTLENSUBSTITUTEFIND**
Get last name from name with comma	**LENLEFT**
Get middle name from full name	**MIDLENTRIM**
Join first and last name	**CONCATENATE**
Put names into proper case	**PROPERTRIM**

Excel Formulas

Percentage

Calculate percent variance

ABS

Project complete percentage

COUNTA

Excel Formulas X

Random

Random date between two dates	**RANDBETWEENWORKDAY**
Random number between two numbers	**RANDBETWEEN**
Random number from fixed set of options	**CHOOSERANDBETWEEN**
Random number weighted probability	**RANDMATCHINDEX**
Random text values	**CHOOSERANDBETWEEN**
Random times at specific intervals	**RAND**
Random value from list or table	**INDEXRANDBETWEENROWS**
Randomly assign data to groups	**RANDBETWEENCHOOSE**
Randomly assign people to groups	**RANDROUNDUPCEILING**

Excel Formulas **X**

Range

Add row numbers and skip blanks	**COUNTAIFISBLANK**
Address of first cell in range	**ADDRESSROWCOLUMNCELL**
Address of last cell in range	**ADDRESSROWCOLUMNROWSCOLUMNS**
All cells in range are blank	**SUMPRODUCT**
All values in a range are at least	**COUNTIFNOT**
Count visible columns	**CELLNSUM**
COUNTIFS with variable range	**COUNTIFSOFFSETADDRESSINDIRECTROW**
Define range based on cell value	**INDEXOFFSET**
Dynamic named range with **INDEX**	**INDEXCOUNTA**
Dynamic named range with **OFFSET**	**OFFSETCOUNTA**
First column number in range	**ROWSMIN**
First match between two ranges	**INDEXMATCHCOUNTIF**
First row number in range	**ROWMIN**

Excel Formulas

Range

Get address of named range	**ADDRESSROWCOLUMNROWSCOLUMNS**
Get relative column numbers in range	**COLUMNSEQUENCECOLUMNS**
Get relative row numbers in range	**ROWSEQUENCEROWS**
Last column number in range	**COLUMNCOLUMNSMIN**
Last n rows	**ROWROWSINDEX**
Last row in mixed data with blanks	**MATCH**
Last row in mixed data with no blanks	**COUNTA**
Last row in numeric data	**MATCH**
Last row in text data	**MATCHREPT**
Last row number in range	**ROWROWSMIN**
Multiple cells are equal	**ANDEXACT**
Multiple cells have same value	**COUNTIF**
Multiple cells have same value case sensitive	**EXACTSUMPRODUCTCOUNTA**

Excel Formulas X

Range

Multiple columns are equal	**ANDCOUNTIF**
Range contains a value not in another range	**SUMPRODUCTMATCHISNA**
Range contains numbers	**SUMPRODUCTISNUMBER**
Range contains specific date	**COUNTIFSDATETODAY**
Sequential row numbers	**ROW**
Total cells in a range	**ROWSCOLUMNS**
Total columns in range	**COLUMNS**
Total rows in range	**ROWS**

Excel Formulas   X

Tables

Automatic row numbers in Table	**ROWINDEX**
Average last N values in a table	**INDEXAVERAGEROWS**
Basic inventory formula example	**SUMIFS**
Count table columns	**COLUMNS**
Count table rows	**ROWS**
COUNTIFS with variable table column	**COUNTIFSINDEXMATCHINDIRECT**
Dynamic reference Table name	**INDIRECT**
Get column index in Excel Table	**MATCH**
Get column name from index in table	**INDEX**
Percentile IF in table	**PERCENTILE**

Excel Formulas X

Tables

Running count in Table	INDEXSUM
Running total in Table	INDEXSUM
Sum multiple tables	SUM
SUMIFS vs other lookup formulas	SUMIFSINDEXMATCHLOOKUPXLOOKUPSUMPRODUCT
SUMIFS with Excel Table	SUMIFS
Two-way lookup VLOOKUP in a Table	VLOOKUPMATCH
Two-way summary with SUMIFS	SUMIFS

Excel Formulas   X

Errors

How to fix the #DIV/0! error	IFERRORISERRORERROR.TYPE
How to fix the #N/A error	VLOOKUPIFERRORMATCH
How to fix the #NAME? error	IFERRORISERRORERROR.TYPE
How to fix the #NULL! error	IFERRORISERRORERROR.TYPE
How to fix the #NUM! error	IFERRORISERRORERROR.TYPE
How to fix the #REF! error	ISREFIERROR
How to fix the #SPILL! error	IFERRORISERRORERROR.TYPE
How to fix the #VALUE! error	IFERRORISERRORERROR.TYPE

Excel Formulas X

Miscellaneous

Abbreviate state names	**VLOOKUPINDEXMATCH**
All dates in chronological order	**IFSUMPRODUCTSORT**
Basic array formula example	**MAXMIN**
Basic attendance tracking formula	**COUNTIF**
Basic error trapping example	**IFERROR**
Basic in cell histogram	**REPTCHAR**
Basic numeric sort formula	**RANKCOUNTIF**
Basic outline numbering	**COUNTAMIDFINDLEN**
Basic text sort formula	**RANKCOUNTIF**
BMI calculation formula	**CONVERTPOWER**
Build hyperlink with VLOOKUP	**HYPERLINKVLOOKUP**
Calculate a ratio from two numbers	**GCD**
Cap percentage at 100	**MIN**

Excel Formulas X

Miscellaneous

Cap percentage at specific amount	MIN
Carry-on baggage Inches to centimeters	CONVERT
Cash denomination calculator	SUMPRODUCTINTFLOOR
Celsius to Fahrenheit conversion	CONVERT
Change negative numbers to positive	ABS
Check register balance	IFANDISBLANK
Coefficient of variation	STDEV.PSTDEV.SAVERAGE
Conditional median with criteria	MEDIAN
Conditional mode with criteria	MODE
Convert column letter to number	COLUMNINDIRECT
Convert column number to letter	ADDRESSSUBSTITUTE
Convert expense time units	INDEXMATCH
Convert feet and inches to inches	LEFTFINDMIDSUBSTITUTE

Excel Formulas $\quad$ **X**

Miscellaneous

Convert inches to feet and inches	**INTMOD**
Convert pounds to kilograms	**CONVERT**
Copy value from every nth column	**OFFSETCOLUMN**
Copy value from every nth row	**OFFSETROW**
Count consecutive monthly orders	**FREQUENCYMAXIF**
Count values out of tolerance	**SUMPRODUCTABS**
Count with repeating values	**ROUNDUPCOLUMNROW**
Course completion status summary	**COUNTIFS**
Course completion summary with criteria	**COUNTIFS**
Create array of numbers	**INDIRECTROW**
Cube root of number	**POWER**
Customer is new	**COUNTIFS**

Excel Formulas X

Miscellaneous

Display sorted values with helper column	INDEXMATCHROWS
Dropdown sum with all option	SUMIFSUMIF
Easy bundle pricing with SUMPRODUCT	SUMPRODUCT
Expense begins on specific month	IF
Extract unique items from a list	INDEXMATCHCOUNTIFLOOKUP
Filter values in array formula	ISNUMBERMATCH
Find and retrieve missing values	INDEXMATCHISNA
Fixed value every N columns	MODCOLUMN
Flag first duplicate in a list	COUNTIFCOUNTIFS
Flip table rows to columns	TRANSPOSE
Force negative numbers to zero	MAX
Forecast vs actual variance	SUMIFS

Excel Formulas X

Miscellaneous

Formula with locked reference	**INDIRECT**
Get date associated with last entry	**LOOKUP**
Get first entry by month and year	**INDEXMATCHTEXT**
Get last entry by month and year	**LOOKUPTEXT**
Get pivot table grand total	**GETPIVOTDATA**
Get pivot table subtotal	**GETPIVOTDATA**
Get pivot table subtotal grouped date	**GETPIVOTDATA**
Get value of last non-empty cell	**LOOKUP**
Hyperlink to first blank cell	**HYPERLINKCELLINDEXMATCH**
Hyperlink to first match	**HYPERLINKCELLINDEXMATCH**
Increment a calculation with ROW or COLUMN	**ROWCOLUMN**
Increment a number in a text string	**RIGHTTEXT**
Increment cell reference with INDIRECT	**INDIRECTCELL**

Excel Formulas X

Miscellaneous

Issue response time calculation	VLOOKUP
Leave a comment in a formula	N
Link to multiple sheets	HYPERLINKCELLINDEXMATCH
List contains duplicates	SUMPRODUCTCOUNTIF
List most frequently occuring numbers	MODEISNUMBERMATCH
Longest winning streak	FREQUENCYMAXIF
Lookup last file revision	SEARCHISERRORMAXINDEXIFROW
Most frequently occurring number	MODE
New customers per month	COUNTIFSEOMONTH
Nightly hotel rate calculation	SUMPRODUCTFILTERINDEXMATCH
Normalize size units to Gigabytes	MATCHLEFTRIGHT

Excel Formulas **X**

Miscellaneous

nth root of number	**POWER**
Odometer gas mileage log	**SUMMAXMIN**
One or the other not both	**XOR**
Pad a number with zeros	**TEXTREPT**
Parse XML with formula	**FILTERXML**
Random sort formula	**INDEXMATCH**
Range contains one of many substrings	**SUMPRODUCTCOUNTIF**
Range contains one of many values	**SUMPRODUCTISNUMBERSEARCH**
Range contains specific text	**COUNTIF**
Repeat fixed value every 3 months	**MODDATEDIF**
Return array with INDEX function	**INDEXMATCHN**
Reverse a list or range	**INDEXCOUNTAROWSORTBYSEQUENCE**

Excel Formulas X

Miscellaneous

Risk Matrix Example	INDEXMATCH
Score quiz answers with key	SUMCOUNTA
Search entire worksheet for value	COUNTIF
Search multiple worksheets for value	COUNTIFINDIRECT
Send email with formula	HYPERLINK
Show formula text with formula	FORMULATEXTIFERRORISFORMULA
Simple currency conversion	VLOOKUPINDEXMATCH
Sort and extract unique values	MMULTTRANSPOSEINDEXMATCH
Sort numbers ascending or descending	SMALLLARGE
Sort text and numbers with formula	RANKCOUNTIFCOUNT
Split payment across months	AND
Square root of number	SQRTPOWER

Excel Formulas X

Miscellaneous

Standard deviation calculation	**STDEV.PSTDEV.SSTDEVSTDEVP**
Student class enrollment with table	**IFCOUNTIF**
Sum every 3 cells	**OFFSETCOLUMN**
Sum text values like numbers	**INDEXMATCHN**
Transpose table without zeros	**TRANSPOSEIF**
Validate input with check mark	**IFCOUNTIF**
Value exists in a range	**COUNTIFMATCH**
Value is between two numbers	**ANDMAXMIN**
Value is within tolerance	**IFABS**
Volunteer hours requirement calculation	**ANDCOUNTIFSUM**