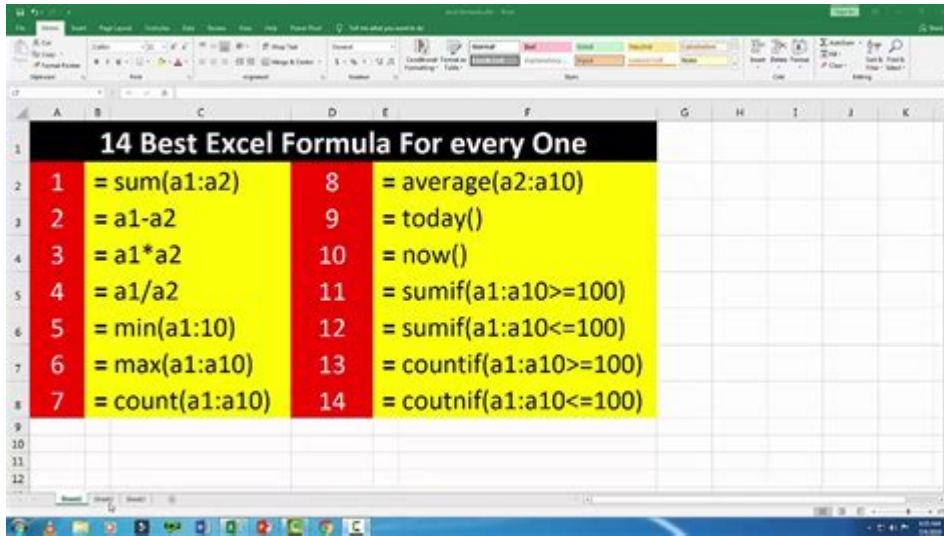


All Excel Formulas In With Example



EXCEL FORMULAS ARE POWERFUL TOOLS THAT ENABLE USERS TO PERFORM CALCULATIONS, ANALYZE DATA, AND AUTOMATE TASKS IN MICROSOFT EXCEL. UNDERSTANDING HOW TO USE THESE FORMULAS EFFECTIVELY CAN ENHANCE PRODUCTIVITY AND IMPROVE DATA MANAGEMENT. THIS ARTICLE WILL COVER VARIOUS EXCEL FORMULAS, CATEGORIZED BY THEIR FUNCTIONS, AND PROVIDE EXAMPLES TO ILLUSTRATE THEIR APPLICATION.

UNDERSTANDING EXCEL FORMULAS

AT ITS CORE, AN EXCEL FORMULA IS AN EXPRESSION THAT CALCULATES THE VALUE OF A CELL. FORMULAS CAN PERFORM A WIDE RANGE OF OPERATIONS, INCLUDING ARITHMETIC CALCULATIONS, STATISTICAL ANALYSIS, DATE AND TIME CALCULATIONS, TEXT MANIPULATION, AND MORE. ALL FORMULAS IN EXCEL BEGIN WITH AN EQUALS SIGN (=), FOLLOWED BY THE FUNCTION NAME AND ITS ARGUMENTS.

CATEGORIES OF EXCEL FORMULAS

EXCEL FORMULAS CAN BE GROUPED INTO SEVERAL CATEGORIES BASED ON THEIR FUNCTIONS:

- ARITHMETIC FORMULAS
- STATISTICAL FORMULAS
- TEXT FORMULAS
- DATE AND TIME FORMULAS
- LOOKUP AND REFERENCE FORMULAS
- LOGICAL FORMULAS
- FINANCIAL FORMULAS

ARITHMETIC FORMULAS

ARITHMETIC FORMULAS ARE USED TO PERFORM BASIC MATHEMATICAL OPERATIONS SUCH AS ADDITION, SUBTRACTION, MULTIPLICATION, AND DIVISION.

1. SUM

THE SUM FUNCTION ADDS UP A RANGE OF NUMBERS.

EXAMPLE:

```
""EXCEL
=SUM(A1:A5)
""
```

THIS FORMULA ADDS ALL VALUES FROM CELLS A1 TO A5.

2. AVERAGE

THE AVERAGE FUNCTION CALCULATES THE MEAN OF A SET OF NUMBERS.

EXAMPLE:

```
""EXCEL
=AVERAGE(B1:B5)
""
```

THIS FORMULA COMPUTES THE AVERAGE OF THE VALUES IN CELLS B1 TO B5.

3. MIN AND MAX

THE MIN FUNCTION RETURNS THE SMALLEST NUMBER, WHILE MAX RETURNS THE LARGEST NUMBER IN A RANGE.

EXAMPLE:

```
""EXCEL
=MIN(C1:C5)
=MAX(C1:C5)
""
```

THE FIRST FORMULA FINDS THE MINIMUM VALUE IN CELLS C1 TO C5, AND THE SECOND FINDS THE MAXIMUM.

4. PRODUCT

THE PRODUCT FUNCTION MULTIPLIES ALL THE NUMBERS GIVEN AS ARGUMENTS.

EXAMPLE:

```
""EXCEL
=PRODUCT(D1:D5)
""
```

THIS FORMULA MULTIPLIES ALL VALUES FROM CELLS D1 TO D5.

5. SUBTRACTION

SUBTRACTION CAN BE PERFORMED BY USING THE MINUS OPERATOR (-).

EXAMPLE:

```
""EXCEL
=A1 - B1
```

'''

THIS FORMULA SUBTRACTS THE VALUE IN CELL B1 FROM THE VALUE IN CELL A1.

STATISTICAL FORMULAS

STATISTICAL FORMULAS ARE ESSENTIAL FOR DATA ANALYSIS AND CAN SUMMARIZE LARGE DATASETS.

1. COUNT

THE COUNT FUNCTION COUNTS THE NUMBER OF CELLS THAT CONTAIN NUMBERS.

EXAMPLE:

```
'''EXCEL
=COUNT(E1:E10)
'''
```

THIS FORMULA COUNTS ALL NUMERIC ENTRIES IN THE RANGE E1 TO E10.

2. COUNTA

THE COUNTA FUNCTION COUNTS ALL NON-EMPTY CELLS IN A RANGE.

EXAMPLE:

```
'''EXCEL
=COUNTA(F1:F10)
'''
```

THIS FORMULA COUNTS ALL NON-EMPTY CELLS IN THE RANGE F1 TO F10.

3. COUNTIF AND COUNTIFS

THESE FUNCTIONS COUNT THE NUMBER OF CELLS THAT MEET ONE OR MULTIPLE CRITERIA.

EXAMPLE:

```
'''EXCEL
=COUNTIF(G1:G10, ">10")
=COUNTIFS(H1:H10, ">10", H1:H10, "<20")
'''
```

THE FIRST FORMULA COUNTS THE CELLS IN G1 TO G10 THAT ARE GREATER THAN 10, WHILE THE SECOND COUNTS THE CELLS IN H1 TO H10 THAT ARE GREATER THAN 10 AND LESS THAN 20.

4. MEDIAN

THE MEDIAN FUNCTION FINDS THE MEDIAN VALUE IN A SET OF NUMBERS.

EXAMPLE:

```
'''EXCEL
=MEDIAN(I1:I10)
'''
```

THIS FORMULA CALCULATES THE MEDIAN OF THE VALUES IN CELLS I1 TO I10.

TEXT FORMULAS

TEXT FORMULAS ARE USEFUL FOR MANIPULATING AND ANALYZING TEXT STRINGS.

1. CONCATENATE

THE CONCATENATE FUNCTION JOINS TWO OR MORE TEXT STRINGS INTO ONE STRING.

EXAMPLE:

```
""EXCEL
=CONCATENATE(J1, " ", K1)
""
```

THIS FORMULA COMBINES THE TEXT IN CELLS J1 AND K1 WITH A SPACE IN BETWEEN.

2. LEFT, RIGHT, AND MID

THESE FUNCTIONS EXTRACT CHARACTERS FROM A TEXT STRING.

EXAMPLE:

```
""EXCEL
=LEFT(L1, 5)
=RIGHT(M1, 3)
=MID(N1, 2, 4)
""
```

THE FIRST FORMULA RETURNS THE FIRST 5 CHARACTERS FROM L1, THE SECOND RETURNS THE LAST 3 CHARACTERS FROM M1, AND THE THIRD EXTRACTS 4 CHARACTERS FROM N1 STARTING FROM THE SECOND CHARACTER.

3. LEN

THE LEN FUNCTION RETURNS THE LENGTH OF A TEXT STRING.

EXAMPLE:

```
""EXCEL
=LEN(O1)
""
```

THIS FORMULA RETURNS THE NUMBER OF CHARACTERS IN THE TEXT STRING LOCATED IN CELL O1.

4. UPPER, LOWER, AND PROPER

THESE FUNCTIONS CHANGE THE CASE OF TEXT STRINGS.

EXAMPLE:

```
""EXCEL
=UPPER(P1)
=LOWER(Q1)
=PROPER(R1)
""
```

THE FIRST FORMULA CONVERTS THE TEXT IN CELL P1 TO UPPERCASE, THE SECOND TO LOWERCASE, AND THE THIRD CAPITALIZES THE FIRST LETTER OF EACH WORD IN R1.

DATE AND TIME FORMULAS

EXCEL PROVIDES SEVERAL FUNCTIONS FOR PERFORMING CALCULATIONS WITH DATES AND TIMES.

1. TODAY

THE TODAY FUNCTION RETURNS THE CURRENT DATE.

EXAMPLE:

```
""EXCEL
=Today()
""
```

THIS FORMULA DISPLAYS TODAY'S DATE.

2. NOW

THE NOW FUNCTION RETURNS THE CURRENT DATE AND TIME.

EXAMPLE:

```
""EXCEL
=Now()
""
```

THIS FORMULA DISPLAYS THE CURRENT DATE AND TIME.

3. DATE

THE DATE FUNCTION CREATES A DATE FROM YEAR, MONTH, AND DAY VALUES.

EXAMPLE:

```
""EXCEL
=Date(2023, 10, 15)
""
```

THIS FORMULA RETURNS THE DATE OCTOBER 15, 2023.

4. DATEDIF

THE DATEDIF FUNCTION CALCULATES THE DIFFERENCE BETWEEN TWO DATES.

EXAMPLE:

```
""EXCEL
=Datedif(A1, B1, "D")
""
```

THIS FORMULA CALCULATES THE NUMBER OF DAYS BETWEEN THE DATES IN A1 AND B1.

LOOKUP AND REFERENCE FORMULAS

LOOKUP AND REFERENCE FORMULAS ARE VITAL FOR SEARCHING AND RETRIEVING DATA FROM TABLES.

1. VLOOKUP

THE VLOOKUP FUNCTION SEARCHES FOR A VALUE IN THE FIRST COLUMN OF A TABLE AND RETURNS A VALUE IN THE SAME ROW FROM A SPECIFIED COLUMN.

EXAMPLE:

```
""EXCEL
=VLOOKUP(A1, D1:F10, 2, FALSE)
""
```

THIS FORMULA LOOKS FOR THE VALUE IN A1 WITHIN THE RANGE D1 TO F10 AND RETURNS THE CORRESPONDING VALUE FROM THE SECOND COLUMN.

2. HLOOKUP

THE HLOOKUP FUNCTION WORKS SIMILARLY BUT SEARCHES FOR VALUES IN ROWS INSTEAD OF COLUMNS.

EXAMPLE:

```
""EXCEL
=HLOOKUP(A1, D1:Z5, 3, FALSE)
""
```

THIS FORMULA SEARCHES FOR THE VALUE IN A1 ACROSS THE FIRST ROW OF THE RANGE D1 TO Z5 AND RETURNS THE CORRESPONDING VALUE FROM THE THIRD ROW.

3. INDEX AND MATCH

THE INDEX AND MATCH FUNCTIONS ARE OFTEN USED TOGETHER FOR MORE VERSATILE LOOKUPS.

EXAMPLE:

```
""EXCEL
=INDEX(E1:E10, MATCH(A1, D1:D10, 0))
""
```

THIS FORMULA FINDS THE POSITION OF THE VALUE IN A1 WITHIN THE RANGE D1 TO D10 AND RETURNS THE CORRESPONDING VALUE FROM E1 TO E10.

LOGICAL FORMULAS

LOGICAL FORMULAS ARE USED TO PERFORM TESTS AND RETURN TRUE OR FALSE.

1. IF

THE IF FUNCTION CHECKS WHETHER A CONDITION IS MET AND RETURNS ONE VALUE FOR TRUE AND ANOTHER FOR FALSE.

EXAMPLE:

```
""EXCEL
=IF(A1 > 10, "Over 10", "10 or less")
""
```

THIS FORMULA CHECKS IF THE VALUE IN A1 IS GREATER THAN 10 AND RETURNS "Over 10" OR "10 or less" ACCORDINGLY.

2. AND, OR, NOT

THESE FUNCTIONS ARE USED TO COMBINE MULTIPLE CONDITIONS.

EXAMPLE:

""EXCEL

=IF(AND(A1 > 10, B1 < 5), "Yes", "No")

=IF(OR(A1 > 10, B1 < 5), "Yes", "No")

=IF(NOT(A1 > 10), "NOT GREATER THAN 10", "GREATER THAN 10")

""

THE FIRST FORMULA CHECKS IF BOTH CONDITIONS ARE TRUE, THE SECOND CHECKS IF AT LEAST ONE IS TRUE, AND THE THIRD NEGATES THE CONDITION.

FINANCIAL FORMULAS

FINANCIAL FORMULAS HELP IN CALCULATING FINANCIAL METRICS SUCH AS INTEREST RATES AND LOAN PAYMENTS.

FREQUENTLY ASKED QUESTIONS

WHAT IS THE SUM FORMULA IN EXCEL AND HOW IS IT USED?

THE SUM FORMULA ADDS TOGETHER A RANGE OF NUMBERS. FOR EXAMPLE, =SUM(A1:A5) ADDS ALL THE VALUES FROM CELLS A1 TO A5.

HOW DO YOU USE THE AVERAGE FORMULA IN EXCEL?

THE AVERAGE FORMULA CALCULATES THE MEAN OF A SET OF NUMBERS. FOR EXAMPLE, =AVERAGE(B1:B10) COMPUTES THE AVERAGE OF THE VALUES IN CELLS B1 THROUGH B10.

WHAT DOES THE IF FORMULA DO IN EXCEL?

THE IF FORMULA PERFORMS A LOGICAL TEST AND RETURNS ONE VALUE FOR A TRUE RESULT AND ANOTHER FOR A FALSE RESULT. FOR EXAMPLE, =IF(C1>10, 'OVER 10', '10 OR LESS') CHECKS IF THE VALUE IN C1 IS GREATER THAN 10.

HOW CAN YOU CONCATENATE TEXT IN EXCEL?

YOU CAN CONCATENATE TEXT USING THE CONCATENATE FORMULA OR THE '&' OPERATOR. FOR EXAMPLE, =CONCATENATE(A1, ' ', B1) OR =A1 & ' ' & B1 COMBINES THE TEXT IN CELLS A1 AND B1 WITH A SPACE IN BETWEEN.

WHAT IS THE VLOOKUP FORMULA AND HOW IS IT APPLIED?

THE VLOOKUP FORMULA SEARCHES FOR A VALUE IN THE FIRST COLUMN OF A TABLE AND RETURNS A VALUE IN THE SAME ROW FROM A SPECIFIED COLUMN. FOR EXAMPLE, =VLOOKUP(D1, A1:C10, 2, FALSE) LOOKS UP THE VALUE IN D1 WITHIN THE RANGE A1:C10 AND RETURNS THE CORRESPONDING VALUE FROM THE SECOND COLUMN.

HOW DO YOU USE THE COUNTIF FUNCTION IN EXCEL?

THE COUNTIF FUNCTION COUNTS THE NUMBER OF CELLS THAT MEET A SPECIFIC CRITERION. FOR EXAMPLE, =COUNTIF(E1:E20, 'Yes') COUNTS HOW MANY CELLS IN THE RANGE E1 TO E20 CONTAIN THE TEXT 'Yes'.

WHAT IS THE USE OF THE INDEX AND MATCH FUNCTIONS TOGETHER IN EXCEL?

USING INDEX AND MATCH TOGETHER PROVIDES A MORE FLEXIBLE WAY TO LOOK UP VALUES. FOR EXAMPLE, =INDEX(A1:B10, MATCH('SearchValue', A1:A10, 0), 2) FINDS 'SearchValue' IN COLUMN A AND RETURNS THE CORRESPONDING VALUE FROM COLUMN B.

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