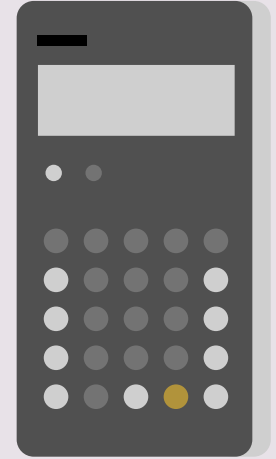


Math and statistical functions



SUM

- Calculates the addition of the selected cells

AVERAGE

- Calculates the average of the selected cells

COUNT

- Counts the total number of cells in a range that contains a number
- Use COUNTA to count all cells containing any value (not just numbers)
- Use COUNTBLANK to count blank cells in a range

SUMIF, SUMIFS, AVERAGEIF, AVERAGEIFS, COUNTIF, COUNTIFS

- Same as base formulas, but the selected cells can be filtered

MAX, LARGE

- Returns the largest or the k-th largest value in a data set

MIN, SMALL

- Returns the smallest or the k-th smallest value in a data set

	A	B
1	yes	5
2		3
3		1
4	yes	8
5		a
6	<i>Calculations:</i>	
7	SUM(B1:B5)	17
8	AVERAGE(B1:B5)	4,25
9	COUNT(B1:B5)	4
10	COUNTA(B1:B5)	5
11	COUNTBLANK(A1:B5)	3
12	SUMIF(A1:A5;"yes";B1:B5)	13
13	MAX(B1:B5)	8
14	LARGE(B1:B5;2)	5

Date and time functions

TODAY, NOW

- Gives the current system date or date and time

DAY, MONTH, YEAR

- Returns the day, month or year of a selected date

DATEDIF

- Calculates difference between two dates in terms of years, months, or days



	A	B	C
1	TODAY()	NOW()	
2	2024.04.20	2024.04.20 22:05	
3			
4	DAY(A1)	MONTH(A1)	YEAR (A1)
5	20	4	2024
6			
7	2023.04.20	DATEDIF(A7;A2;"d")	
8		366	

Information functions

IF

- Checks a condition and returns a particular value if it is true. It will return another value if the condition is false.



	A	B
1	Number	IF(Number>=20;"A";"B")
2	10	B
3	20	A
4	30	A

IFERROR

- Returns a value if an expression evaluates to an error, or else it will return the value of the expression

	A	B	C	D
1	a	b	a*b	IFERROR(C2;0)
2	2	3	6	6
3	4	x	#VALUE	0

Logical functions

AND

- Returns TRUE if all of its arguments are true

NOT

- Reverses the logic of its argument

OR

- Returns TRUE if any argument is true



	A	B	C	D	E	F	G
1	a	b	a=b	a>b	AND(C2;D2)	OR(C2;D2)	NOT(F2)
2	2	10	FALSE	FALSE	FALSE	FALSE	TRUE
3	4	8	FALSE	FALSE	FALSE	FALSE	TRUE
4	6	6	TRUE	FALSE	FALSE	TRUE	FALSE
5	8	4	FALSE	TRUE	FALSE	TRUE	FALSE
6	10	2	FALSE	TRUE	FALSE	TRUE	FALSE

Lookup functions

VLOOKUP

- Searches a particular value in the first column of a table. Then returns a value in the same row from a column you specify.
- HLOOKUP can be used for horizontal lookup

INDEX-MATCH

- Similar as VLOOKUP, but the searched value doesn't have to be in the first line



	A	B
1	Teacher Name	Subject
2	Anne Smith	Math
3	Rob Taylor	English
4	Katherine Big	History
5	Juan Santos	Biology
6		
7		<code>VLOOKUP(A8;A1:C5;2;FALSE)</code>
8	Anne Smith	Math
9		
10		<code>INDEX(A1:A5;MATCH(A11;B1:B5;0))</code>
11	History	Katherine Big