

# How do I use the FLOOR.MATH function in Google Sheets?

Authored by  
**stats writer**

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## RECOMMENDED CITATION

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PSYCHOLOGICAL SCALES. Retrieved from <https://scales.arabpsychology.com/?p=160944>

The FLOOR.MATH function in Google Sheets is a tool that allows users to round down a given number to the nearest multiple of their choosing. This function is particularly useful for financial calculations or data analysis. To use the FLOOR.MATH function, simply enter the number you want to round down in the first parameter, followed by the desired multiple in the second parameter. The result will be the closest number that is less than or equal to the original number and is a multiple of the chosen value. This can be done by typing the function in a cell, or by using the function wizard. The FLOOR.MATH function is a simple and efficient way to manipulate numerical data in Google Sheets.

## FLOOR.MATH function

The FLOOR.MATH function rounds a number down to the nearest integer or a multiple of specified significance, with negative numbers rounding toward or away from zero depending on the mode.

### Parts of a FLOOR.MATH function

`FLOOR.MATH(number, , )`

Part	Description	Notes
number	The value to round down to the nearest integer or if specified, the nearest multiple of significance.	
significance	The number to whose multiples number will be rounded. The sign of significance will be ignored. It's 1 by default.	
mode	If number is negative, specifies the rounding direction. If 0 or blank, it's rounded away from zero. Otherwise, it's rounded towards zero.	

### Sample formulas

`FLOOR.MATH(5.4)`

`FLOOR.MATH(A2)`

`FLOOR.MATH(32, 5)`

`FLOOR.MATH(-26.2, 10, 1)`

### Notes

By default, positive numbers with decimal places are rounded down to the nearest integer. For example, 4.3 is rounded down to 4. By default, negative numbers with decimal places are rounded away from zero to the nearest integer. For example, -4.7 is rounded down to -5.

## Examples

	A	B
1	<b>Formula</b>	<b>Result</b>
2	<code>=FLOOR.MATH(11.2)</code>	11
3	<code>=FLOOR.MATH(-8.8)</code>	-9
4	<code>=FLOOR.MATH(7.7,0.2)</code>	7.6
5	<code>=FLOOR.MATH(-10.2,2)</code>	-12
6	<code>=FLOOR.MATH(-42,10,-1)</code>	-40

## Related functions

**CEILING:** The CEILING function rounds a number up to the nearest integer multiple of specified significance.**ROUNDDOWN:** The ROUNDDOWN function rounds a number to a certain number of decimal places, always rounding down to the next valid increment.**ROUND:** The ROUND function rounds a number to a certain number of decimal places according to standard rules.**CEILING.MATH:** The CEILING.MATH function rounds a number up to the nearest integer or to the nearest multiple of specified significance. It also specifies whether the number is rounded toward or away from 0 depending on the mode.**FLOOR:** The FLOOR function rounds a number down to the nearest integer multiple of specified significance.