

“How do I use the AVERAGE.WEIGHTED function in Google Sheets?”

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The AVERAGE.WEIGHTED function in Google Sheets is a useful tool for calculating the weighted average of a group of numbers. To use this function, simply select the cell where you want the result to appear, type "=AVERAGE.WEIGHTED(" and then select the range of cells containing the numbers you want to calculate the average of. Then, add a comma and select the range of cells containing the corresponding weights for each number. Finally, close the parentheses and press enter to get the weighted average. This function is especially helpful when dealing with data sets that have varying levels of importance assigned to each number.

AVERAGE.WEIGHTED function

The AVERAGE.WEIGHTED function finds the weighted average of a set of values, given the values and the corresponding weights.

Parts of an AVERAGE.WEIGHTED function

AVERAGE.WEIGHTED(values, weights, ,)

Part	Description	Notes
values	The values to be averaged.	May refer to a range of cells, or may contain the values themselves.
weights	The corresponding list of weights to apply.	May refer to a range of cells, or may contain the weights themselves. Weights cannot be negative, though they can be zero. At least one of the weights must be positive. If using a range of cells, that range must have the same number of rows and columns as the range of values.
	Additional values to average.	Additional values are optional.
	Additional weights to apply.	Additional weights are optional, but each additional_value must be followed by exactly one additional_weight.

Sample formulas

AVERAGE.WEIGHTED(10, 1, 20, 3)

AVERAGE.WEIGHTED(A1:A2, B1:B2)

AVERAGE.WEIGHTED(A1:A2, B1:B2, C1, C2)

Examples

This example shows the weighted averages of different numbers and weights:

	A	B	C	D
1	2	1	Formula	Result
2	4	3	=AVERAGE.WEIGHTED(A1:A2, B1:B2)	3.5
3	8	6	=AVERAGE.WEIGHTED(2, 10, 4, 15)	3.2
4			=AVERAGE.WEIGHTED(A1:A2, B1:B2, C1, C2)	6.2

This example of weighted average calculates someone's grade in a school course:

	A	B	C
1	Item	Grade	Percentage of final grade
2	Homework	95	25%
3	Participation	90	10%
4	Midterm exam	85	15%
5	Projects	88	20%
6	Final exam	82	30%
7		Formula	Result
8	Final grade	=AVERAGE.WEIGHTED(B2:B6, C2:C6)	87.7

Related functions

SUMPRODUCT: The SUMPRODUCT function calculates the sum of the products of corresponding entries in 2 equally sized arrays or ranges.
AVERAGE: The AVERAGE function returns the numerical average value in a dataset, ignoring text.