

How do I calculate a weighted percentage in Google Sheets?

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June 28, 2024

RECOMMENDED CITATION

stats writer (2024). *How do I calculate a weighted percentage in Google Sheets?*.
PSYCHOLOGICAL SCALES. Retrieved from <https://scales.arabpsychology.com/?p=155808>

Calculating a weighted percentage in Google Sheets is a simple process that involves multiplying the values by their corresponding weights and then dividing the sum by the total weight. This will give you the percentage of each value in relation to the total weight. To do this, you will need to use the SUMPRODUCT formula in Google Sheets. This formula allows you to multiply the values by their weights and add them together. By dividing this sum by the total weight, you will get the weighted percentage. This method is useful for calculating grades, financial data, and other data sets where different values have varying levels of importance. By following these steps, you can easily calculate a weighted percentage in Google Sheets.

Calculate a Weighted Percentage in Google Sheets

You can use the following formula to calculate a weighted percentage in Google Sheets:

=SUMPRODUCT(A:A, B:B)/SUM(B:B)

This formula assumes column A contains the percentage values and column B contains the weights.

The following example shows how to use this formula in practice.

Example: Weighted Percentage in Google Sheets

Suppose we have the following dataset that shows the scores that some student received on various exams along with the weights for each exam:

	A	B	C	D	E
1	Test	Grade	Weight		
2	Midterm 1	90%	10%		
3	Midterm 2	91%	10%		
4	Midterm 3	81%	10%		
5	Midterm 4	78%	10%		
6	Final	85%	60%		
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					

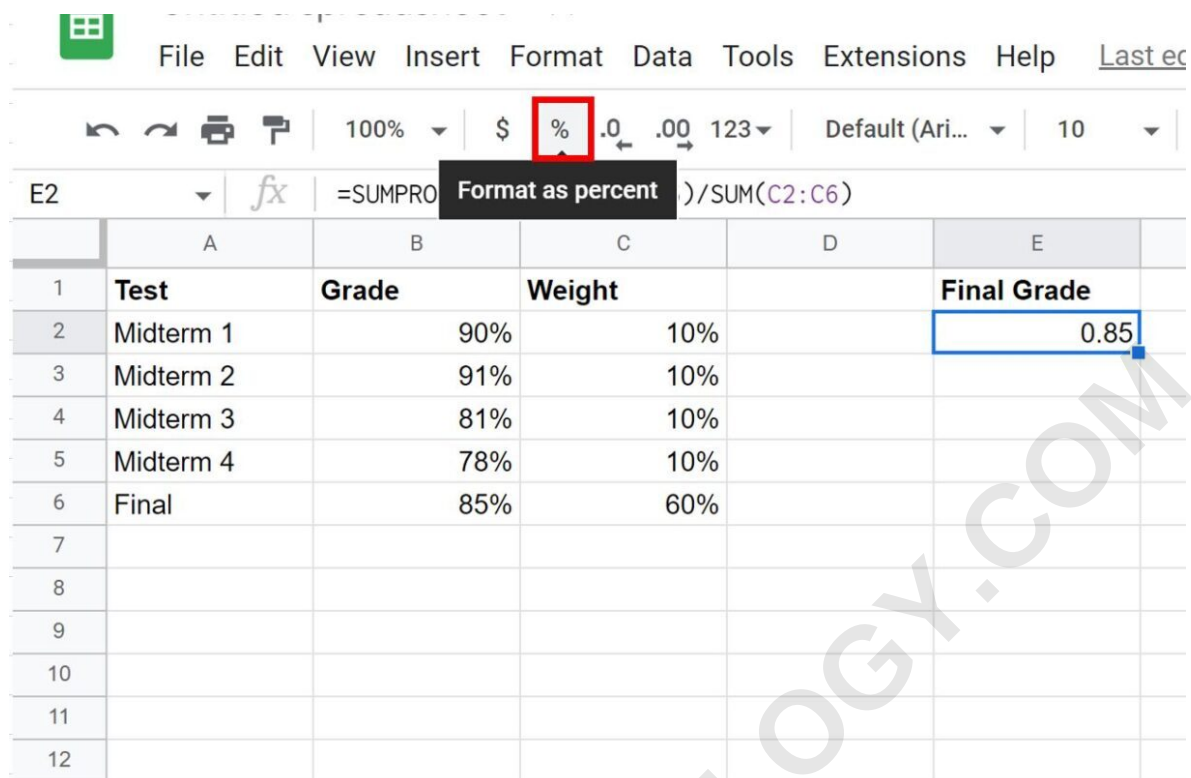
We can use the following formula to calculate a weighted percentage for their final grade in the class:

=SUMPRODUCT(B2:B6, C2:C6)/SUM(C2:C6)

The following screenshot shows how to use this formula:

E2		$\sum$	=SUMPRODUCT(B2:B6, C2:C6)/SUM(C2:C6)			
	A		B	C	D	E
1	Test		Grade	Weight		Final Grade
2	Midterm 1		90%	10%		0.85
3	Midterm 2		91%	10%		
4	Midterm 3		81%	10%		
5	Midterm 4		78%	10%		
6	Final		85%	60%		
7						
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18						

Click the Format as percent button to convert this decimal to a percentage:



	A	B	C	D	E
1	Test	Grade	Weight		Final Grade
2	Midterm 1	90%	10%		0.85
3	Midterm 2	91%	10%		
4	Midterm 3	81%	10%		
5	Midterm 4	78%	10%		
6	Final	85%	60%		
7					
8					
9					
10					
11					
12					

The value will automatically be formatted as a percentage:

	A	B	C	D	E
1	Test	Grade	Weight		Final Grade
2	Midterm 1	90%	10%		85.00%
3	Midterm 2	91%	10%		
4	Midterm 3	81%	10%		
5	Midterm 4	78%	10%		
6	Final	85%	60%		
7					
8					
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The final grade turns out to be 85%.

We can verify that this is correct by manually calculating the weighted percentage of grades:

Weighted Percentage: $(90\% \times 10\%) + (91\% \times 10\%) + (81\% \times 10\%) + (78\% \times 10\%) + (85\% \times 60\%)$
Weighted Percentage: $9\% + 9.1\% + 8.1\% + 7.8\% + 51\%$
Weighted Percentage = 85%.

This weighted percentage matches the value that we calculated using the formula from earlier.

Note: You can find the complete documentation for the

SUMPRODUCT function in Google Sheets .

Additional Resources

The following tutorials explain how to perform other common tasks in Google Sheets:

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