How do I calculate a weighted percentage in Excel?

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Calculating a weighted percentage in Excel involves multiplying each value by its corresponding weight, adding the results, and then dividing by the total weight. This will give you the weighted average or percentage. To do this, you can use the SUMPRODUCT function in Excel. This function multiplies each value in a range by its corresponding weight and then adds the results. You can then divide this sum by the total weight to get the final weighted percentage. This method is useful when analyzing data sets with varying weights assigned to each value, such as grades or survey responses. By using Excel's built-in functions, calculating a weighted percentage can be done quickly and accurately, providing valuable insights for decision making and analysis.

Calculate a Weighted Percentage in Excel

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

=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: Calculate Weighted Percentage in Excel

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	F
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 Exam	85%	60%			
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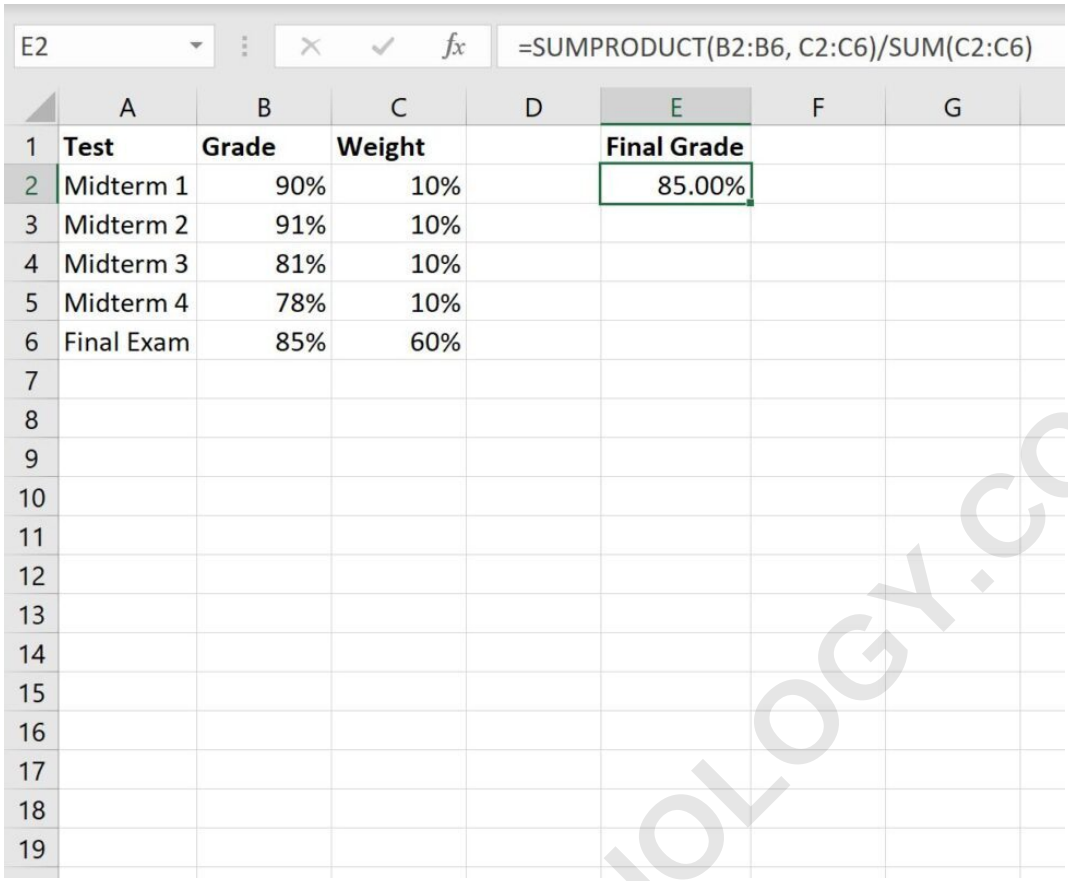
We can use the following formula to calculate a weighted percentage for their final grade in the class:

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

The following screenshot shows how to use this formula:



	A	B	C	D	E	F	G
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 Exam	85%	60%				
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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%*10%) + (91%*10%) + (81%*10%) + (78%*10%) + (85%*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 Excel .

Additional Resources