How do I use SUMPRODUCT across multiple sheets in Excel?

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"SUMPRODUCT is a useful function in Excel that allows for the calculation of the product of corresponding values in multiple arrays, with the option to apply additional conditions. To use SUMPRODUCT across multiple sheets in Excel, simply select the cells or ranges from different sheets that you want to include in the calculation, making sure to separate the references with a comma. You can also use named ranges or 3D references to include data from multiple sheets. This function is particularly helpful for analyzing and summarizing data from multiple sources, providing a comprehensive view of the data across different sheets."

Excel: Use SUMPRODUCT Across Multiple Sheets

The SUMPRODUCT function in Excel returns the sum of the products of two arrays.

You can use the following basic syntax to use the SUMPRODUCT function across multiple sheets:

=SUM(SUMPRODUCT(Sheet1!A2:A11, Sheet1!B2:B11), SUMPRODUCT(Sheet2!A2:A6, Sheet2!B2:B6), SUMPRODUCT(Sheet3!A2:A9, Sheet3!B2:B9))

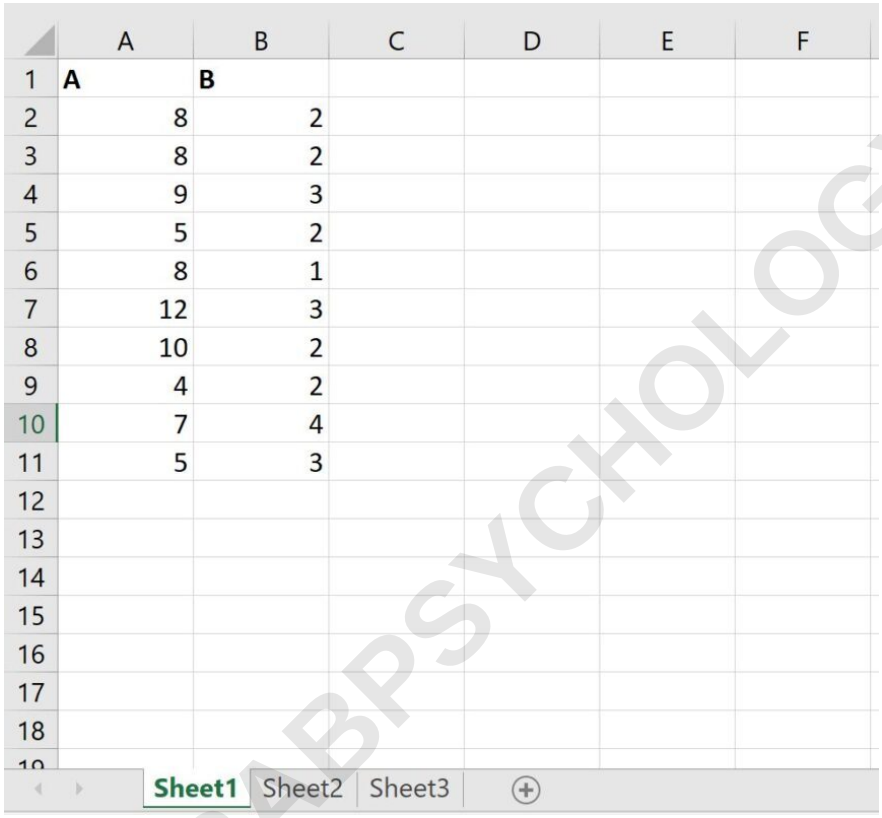
This formula performs a SUMPRODUCT calculation across specific ranges in the sheets named Sheet1, Sheet2, and Sheet3 and then takes the sum of the three values.

The following example show how to use this syntax in practice.

Example: How to Use SUMPRODUCT Across Multiple Sheets

Suppose we have the following three sheets in an Excel workbook:

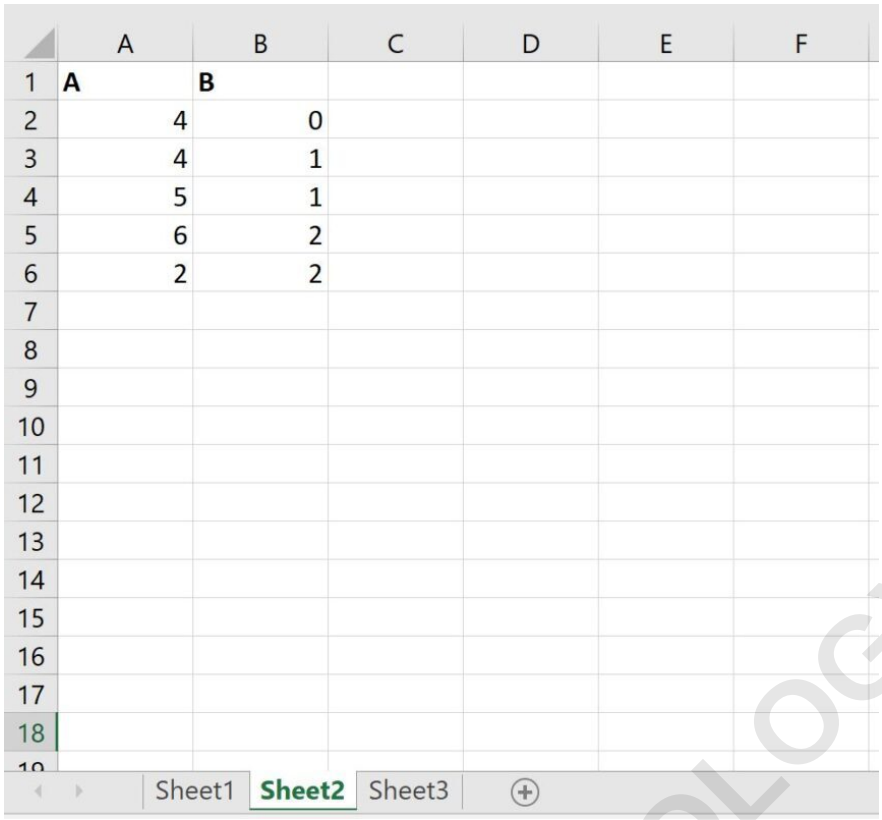
Sheet1:



	A	B	C	D	E	F
1	**A**	**B**				
2	8	2				
3	8	2				
4	9	3				
5	5	2				
6	8	1				
7	12	3				
8	10	2				
9	4	2				
10	7	4				
11	5	3				
12						
13						
14						
15						
16						
17						
18						

Sheet1 Sheet2 Sheet3

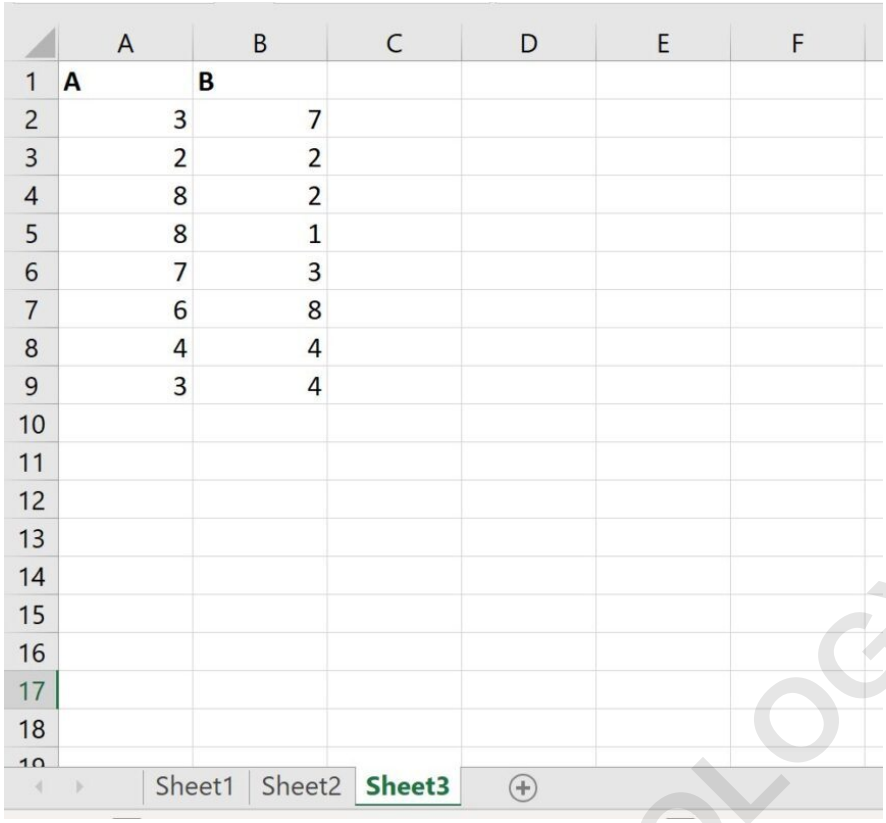
Sheet2:



	A	B	C	D	E	F
1	**A**	**B**				
2	4	0				
3	4	1				
4	5	1				
5	6	2				
6	2	2				
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						

Sheet1 **Sheet2** Sheet3

Sheet3:



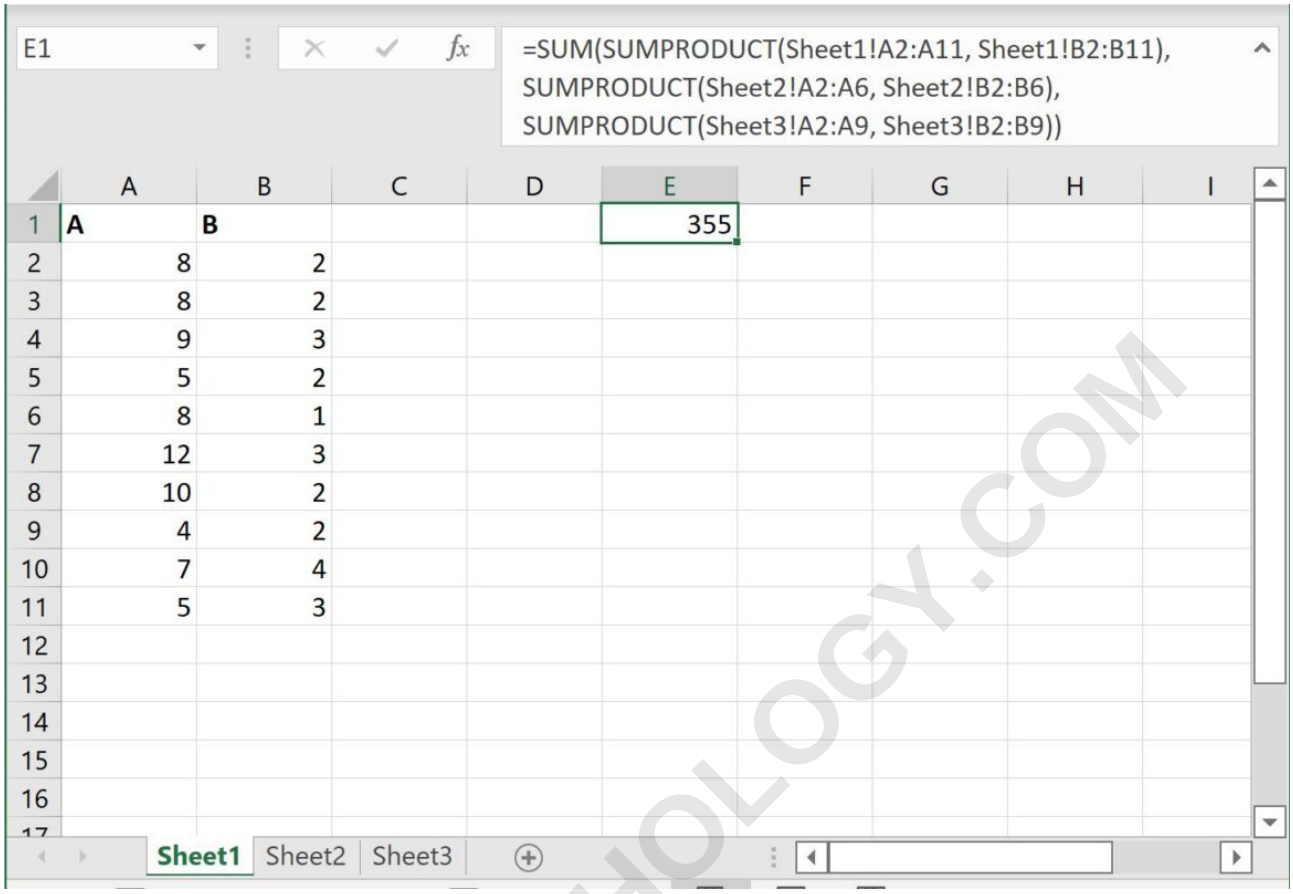
	A	B	C	D	E	F
1	**A**	**B**				
2	3	7				
3	2	2				
4	8	2				
5	8	1				
6	7	3				
7	6	8				
8	4	4				
9	3	4				
10						
11						
12						
13						
14						
15						
16						
17						
18						

Sheet1 | Sheet2 | **Sheet3**

We can use the following formula to calculate the SUMPRODUCT between columns A and B in each sheet individually and then add the sum of all three values:

=SUM(SUMPRODUCT(Sheet1!A2:A11, Sheet1!B2:B11), SUMPRODUCT(Sheet2!A2:A6, Sheet2!B2:B6), SUMPRODUCT(Sheet3!A2:A9, Sheet3!B2:B9))

The following screenshot shows how to use this formula in practice:



If you use the SUMPRODUCT in each sheet individually, you'll end up with the following values:

Sheet1 SUMPRODUCT of A and B columns: 184Sheet2 SUMPRODUCT of A and B columns: 25Sheet3 SUMPRODUCT of A and B columns: 146

The sum of these three values is: 184 + 25 + 146 = 355.

This matches the value that we calculated using one formula.

Note: You can find the complete documentation for the SUMPRODUCT function in Excel .

Additional Resources

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