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Grade received 100% To pass 80% or higher

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1. Which of the options below best describes how SUMPRODUCT works ?

1 / 1 point

- ☐ SUMPRODUCT sums up the elements of multiple arrays and then calculates the product of the sums.
- ☐ SUMPRODUCT calculates the product of elements within an array and then sums up those products.
- ☒ SUMPRODUCT finds the product of multiple arrays and then sums up the products.

✔ Correct

Yes, that's spot on. This defines how the function SUMPRODUCT works.

2. A colleague is unsure what order the arrays need to be entered in the SUMPRODUCT function. What is the best response to this?

1 / 1 point

- ☐ It is important to consider the order of the arrays. If the arrays are not in the right order, an erroneous answer can be produced.
- ☒ It is actually not necessary to use a particular order when placing the arguments in SUMPRODUCT.

✔ Correct

Yes, that's correct. It is important to make sure that in each array you enter the elements correctly to correspond to the other arrays based on what you want to find the product of. However, there is no need for a particular order.

3. How can SUMPRODUCT be used to add up values that meet certain criteria (perform a COUNTIF)?

1 / 1 point

- ☒ It finds the product element wise of one times whether each element in the array met the condition (1 if it did and 0 if it didn't) and then sums up the resulting products.
- ☐ It can't fully be understood how Excel does this as this is odd for the SUMPRODUCT function to do.
- ☐ This only works sometimes, it could produce an erroneous answer on a large dataset.

✔ Correct

4. The arrays in a SUMPRODUCT can have differing amounts of rows and columns.

1 / 1 point

- ☐ True
- ☒ False

✔ Correct

Yes, that's not the correct answer. The rows and columns of each array within one SUMPRODUCT function do need to be the same.

5. When using SUMPRODUCT to calculate the total marks of students in Column G, for efficiency, which array will need to be in absolute cell referencing terms?

1 / 1 point

	A	B	C	D	E	F	G
1	Student Marks						
2							
3	Weighting	0.1	0.1	0.1	0.1	0.6	
4	Assessment	Test 1	Test 2	Test 3	Test 4	Final Exam	Total Mark
5	Cameron	67	76	44	63	75	70
6	Lachlan	65	75	47	68	76	71.1
7	Samson	56	76	49	58	78	70.7

- ☒ \$B\$3:\$F\$3
- ☐ \$B\$5:\$F\$5
- ☐ \$B\$4:\$F\$4

✔ Correct

Yes! This is because the weights will be the same for every single student. Therefore, this array will be needed for each multiplication.


6. For the Excel worksheet below, typing either of the following two formulas in cell G5 will return the same answer: 1 / 1 point

=SUMPRODUCT(B5:F5,\$B\$3:\$F\$3)

=SUMPRODUCT(\$B\$3:\$F\$3,B5:F5)

	A	B	C	D	E	F	G
1	Student Marks						
2							
3	Weighting	0.1	0.1	0.1	0.1	0.6	
4	Assessment	Test 1	Test 2	Test 3	Test 4	Final Exam	Total Mark
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6	Lachlan	65	75	47	68	76	71.1
7	Samson	56	76	49	58	78	70.7

- ☒ True
- ☐ False

 **Correct**  
Yes, that statement is true. It does not matter in which order the arrays are listed.