

# How to calculate the correlation coefficient in Excel

1

The easiest way to calculate the correlation coefficient in Excel is to use the built-in formula for correlation. This formula uses the Pearson product-moment correlation coefficient, as you can see below.

	A	B	C	D	E	F
1						
2	<b>X</b>	<b>Y</b>				
3	1	2				
4	3	4	Correlation Coefficient	=correl		
5	6	7				
6	7	8				
7	12	13				

2

First, you'll need to type in the formula and select the data for x and y separately, using a comma to separate the data from **column A** and **column B**. It looks like this: **=CORREL(A3:A7,B3:B7)**.

	A	B	C	D	E
1					
2	<b>X</b>	<b>Y</b>			
3	1	2			
4	3	4			
5	6	7			
6	7	8			
7	12	15			
8					

Correlation Coefficient = `=correl(A3:A7,B3:B7)`



3

Once you have the data range, click enter, and you end up with your correlation coefficient of 0.99. It means the two sets of data have a high degree of positive correlation. So as one variable increases or decreases, the other variable increases or decreases in the same manner.

	A	B	C	D
1				
2	X	Y		
3	1	2		
4	3	4	Correlation Coefficient	0.99
5	6	7		
6	7	8		
7	12	15		
8				