

# INDEX and MATCH in Excel

Use INDEX and MATCH in Excel and impress your boss. Instead of using [VLOOKUP](#), use INDEX and MATCH. To perform advanced lookups, you'll need INDEX and MATCH.

## ◆ MATCH

The MATCH function returns the position of a value in a given range. For example, the MATCH function below looks up the value 53 in the range B3:B9.

COUNTIF											:	X	✓	fx	=MATCH(H2,B3:B9,0)
	A	B	C	D	E	F	G	H	I	J					
1															
2		ID	First Name	Last Name	Salary		ID	53							
3		72	Emily	Smith	\$64,901		Salary	5							
4		66	James	Anderson	\$70,855										
5		14	Mia	Clark	\$188,657										
6		30	John	Lewis	\$97,566										
7		53	Jessica	Walker	\$58,339										
8		56	Mark	Reed	\$125,180										
9		79	Richard	Lopez	\$91,632										
10															

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Explanation: 53 (first argument) found at position 5 in the range B3:B9 (second argument). In this example, we use MATCH to return an exact match so we set the third argument to 0.

## ◆ INDEX

The INDEX function below returns a specific value in a one-dimensional range.

COUNTIF				X ✓ <i>fx</i>		=INDEX(E3:E9,5)				
	A	B	C	D	E	F	G	H	I	J
1										
2		ID	First Name	Last Name	Salary		ID			
3		72	Emily	Smith	\$64,901		Salary	\$58,339		
4		66	James	Anderson	\$70,855					
5		14	Mia	Clark	\$188,657					
6		30	John	Lewis	\$97,566					
7		53	Jessica	Walker	\$58,339					
8		56	Mark	Reed	\$125,180					
9		79	Richard	Lopez	\$91,632					
10										

Explanation: the INDEX function returns the 5th value (second argument) in the range E3:E9 (first argument).

## ◆ INDEX and MATCH

Replace the value 5 in the INDEX function (see previous example) with the MATCH function (see first example) to look up the salary of ID 53.

H3				X ✓ fx		=INDEX(E3:E9,MATCH(H2,B3:B9,0))				
	A	B	C	D	E	F	G	H	I	J
1										
2		ID	First Name	Last Name	Salary		ID	53		
3		72	Emily	Smith	\$64,901		Salary	\$58,339		
4		66	James	Anderson	\$70,855					
5		14	Mia	Clark	\$188,657					
6		30	John	Lewis	\$97,566					
7		53	Jessica	Walker	\$58,339					
8		56	Mark	Reed	\$125,180					
9		79	Richard	Lopez	\$91,632					
10										

Explanation: the MATCH function returns position 5. The INDEX function needs position 5. It's a perfect combination. If you like, you can also use the [VLOOKUP function](#). It's up to you. However, you'll need INDEX and MATCH to perform advanced lookups, as we will see next.

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## ◆ Two-way Lookup

The INDEX function can also return a specific value in a two-dimensional range. For example, use INDEX and MATCH in Excel to perform a [two-way lookup](#).

G5		=INDEX(B2:D13,MATCH(G2,A2:A13,0),MATCH(G3,B1:D1,0))							
	A	B	C	D	E	F	G	H	I
1		Chocolate	Strawberry	Vanilla					
2	Jan	544	639	189		Month	Feb		
3	Feb	217	719	679		Flavour	Chocolate		
4	Mar	810	178	810					
5	Apr	567	926	929		Sales	217		
6	May	745	230	364					
7	Jun	298	820	947					
8	Jul	457	522	832					
9	Aug	495	500	239					
10	Sep	871	391	529					
11	Oct	585	225	791					
12	Nov	478	262	540					
13	Dec	741	883	809					
14									

## ◆ Case-sensitive Lookup

By default, the VLOOKUP function performs a case-insensitive lookup. However, you can use INDEX, MATCH and EXACT in Excel to perform a [case-sensitive lookup](#).

G3		{=INDEX(D3:D9,MATCH(TRUE,EXACT(G2,B3:B9),0))}							
	A	B	C	D	E	F	G	H	I
1									
2		First Name	Last Name	Salary		First Name	MIA		
3		Emily	Smith	\$64,901		Salary	\$125,180		
4		James	Anderson	\$70,855					
5		Mia	Clark	\$188,657					
6		John	Lewis	\$97,566					
7		Jessica	Walker	\$58,339					
8	✓	MIA	Reed	\$125,180					
9		Richard	Lopez	\$91,632					
10									

Note: the formula correctly looks up the salary of MIA Reed, not Mia Clark.

## ◆ Left Lookup

The VLOOKUP function only looks to the right. No worries, you can use INDEX and MATCH in Excel to perform a [left lookup](#).

B2									
1	ID	Product							
2	104	Printer							
3	103				Product	Brand	ID		
4	104				Computer	Dell	101		
5	101				Keyboard	Logitech	102		
6	102				Mouse	Logitech	103		
7	103				Printer	HP	104		
8	101								
9	104								
10	101								
11	102								
12									

Note: when we drag this formula down, the absolute references (\$E\$4:\$E\$7 and \$G\$4:\$G\$7) stay the same, while the relative reference (A2) changes to A3, A4, A5, etc.

## ◆ Two-column Lookup

Do you want to look up a value based on multiple criteria? Use INDEX and MATCH in Excel to perform a [two-column lookup](#).

G4									
1									
2	First Name	Last Name	Salary		First Name	James			
3	James	Smith	\$64,901		Last Name	Clark			
4	James	Anderson	\$70,855		Salary	\$188,657			
5	James	Clark	\$188,657						
6	John	Lewis	\$97,566						
7	John	Walker	\$58,339						
8	Mark	Reed	\$125,180						
9	Richard	Lopez	\$91,632						
10									

Note: the array formula above looks up the salary of James Clark, not James Smith, not James Anderson.

## ◆ Closest Match

To find the [closest match](#) to a target value in a data column, use INDEX, MATCH, ABS and MIN in Excel.

F3									
1									
2	Name	Data		Target	720				

2	Name	Data	Target	720				
3	Emily	681	Match	James				
4	James	734						
5	Mia	683						
6	John	704						
7	Jessica	698						
8	Mark	736						
9	Richard	703						
10								

## ◆ XLOOKUP

If you have Excel 365 or Excel 2021, use [XLOOKUP](#) instead of INDEX and MATCH. The XLOOKUP function is easier to use and has some additional advantages.

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