

# Round Numbers in Excel

This chapter illustrates three functions to round numbers in Excel. ROUND, ROUNDUP and ROUNDDOWN.

## ◆ ROUND function

The ROUND function in Excel rounds a number to a specified number of digits. The ROUND function rounds up or down. 1, 2, 3 and 4 get rounded down. 5, 6, 7, 8 and 9 get rounded up.

1. For example, round a number to three decimal places.

B1		✕	✓	fx	=ROUND(A1,3)				
	A	B	C	D	E	F	G	H	I
1	114.7261	114.726							
2									

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Note: 114.7261, 114.7262, 114.7263 and 114.7264 get rounded down to 114.726 and 114.7265, 114.7266, 114.7267, 114.7268 and 114.7269 get rounded up to 114.727.

2. Round a number to two decimal places.

B1		✕	✓	fx	=ROUND(A1,2)				
	A	B	C	D	E	F	G	H	I
1	114.7261	114.73							
2									



	A	B	C	D	E	F	G	H	I
1	-114.7261	-115							
2									

## ★ ROUNDUP function

The ROUNDUP function in Excel always rounds a number up (away from zero). 1, 2, 3, 4, 5, 6, 7, 8 and 9 get rounded up.

1. For example, round a number up to three decimal places.

The screenshot shows the Excel formula bar with the formula `=ROUNDUP(A1,3)` entered in cell B1. The formula bar also shows the function name `ROUNDUP` and the arguments `(A1,3)`. The spreadsheet shows the result of the formula, 114.727, in cell B1.

Note: 114.7261, 114.7262, 114.7263, 114.7264, 114.7265, 114.7266, 114.7267, 114.7268 and 114.7269 get rounded up to 114.727.

2. Round a number up to two decimal places.

The screenshot shows the Excel formula bar with the formula `=ROUNDUP(A1,2)` entered in cell B1. The spreadsheet grid shows the following data:

	A	B	C	D	E	F	G	H	I
1	114.7261	114.73							
2									

3. Round a number up to one decimal place.

The screenshot shows the Excel formula bar with the formula `=ROUNDUP(A1,1)` entered in cell B1. The spreadsheet grid shows cell A1 containing the value 114.7261, and cell B1, which is highlighted with a green border, containing the result 114.8. The formula bar also shows the function icon for ROUNDUP.

4. Round a number up to the nearest integer.

The screenshot shows the Excel formula bar with the formula `=ROUNDUP(A1,0)` entered in cell B1. The spreadsheet grid shows cell A1 containing the value 114.7261, and cell B1 containing the result 115. The formula bar also shows the function icon for ROUNDUP.

5. Round a number up to the nearest 10.

The screenshot shows the Excel formula bar with the formula `=ROUNDUP(A1,-1)` entered in cell B1. The spreadsheet grid shows cell A1 containing the value 114.7261, and cell B1 containing the result 120. The formula bar also shows the function icon for ROUNDUP.

6. Round a number up to the nearest 100.

<div><div>B1</div><div><div>✕</div><div>✓</div><div><i>f<sub>x</sub></i></div></div><div>=ROUNDUP(A1,-2)</div></div>										
	A	B	C	D	E	F	G	H	I	
1	114.7261	200								
2										

7. Round a number up to the nearest 1000.

B1		✕ ✓ <i>f<sub>x</sub></i>		=ROUNDUP(A1,-3)					
	A	B	C	D	E	F	G	H	I
1	114.7261	1000							
2									

8. Round a negative number up to one decimal place.

<div><div>B1</div><div>✕ ✓ <i>f<sub>x</sub></i></div><div>=ROUNDUP(A1,1)</div></div>										
	A	B	C	D	E	F	G	H	I	
1	-114.7261	-114.8								
2										

Note: remember, the ROUNDUP function rounds a number up (away from zero).

9. Round a negative number up to the nearest integer.

B1		:	✕ ✓ <i>f<sub>x</sub></i>		=ROUNDUP(A1,0)					
	A	B	C	D	E	F	G	H	I	
1	-114.7261	-115								
2										

Note: again, the ROUNDUP function rounds a number up (away from zero).

## ◆ ROUNDDOWN function

The ROUNDDOWN function in Excel always rounds a number down (toward zero). 1, 2, 3, 4, 5, 6, 7, 8 and 9 get rounded down.

1. For example, round a number down to three decimal places.

B1		✕ ✓ <i>f<sub>x</sub></i>		=ROUNDDOWN(A1,3)						
	A	B	C	D	E	F	G	H	I	
1	114.7261	114.726								
2										

Note: 114.7261, 114.7262, 114.7263, 114.7264, 114.7265, 114.7266, 114.7267, 114.7268 and 114.7269 get rounded down to 114.726.

2. Round a number down to two decimal places.

3. Round a number down to one decimal place.

4. Round a number down to the nearest integer.

5. Round a number down to the nearest 10.

6. Round a number down to the nearest 100.

7. Round a number down to the nearest 1000.

8. Round a negative number down to one decimal place.

Note: remember, the ROUNDDOWN function rounds a number down (toward zero).

9. Round a negative number down to the nearest integer.

Note: again, the ROUNDDOWN function rounds a number down (toward zero).

## ◆ Show Fewer Decimals Without Rounding

Finally, if you round a number, you lose precision. If you don't want this, show fewer decimal places without changing the number itself.

1. For example, enter the value 2.175 into cell A1.

2. Use the Decrease Decimal button on the Home tab to show fewer decimal places in Excel.

Result:

Note: the formula bar shows that cell A1 still contains the value 2.175.

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