

# How can I round numbers to a specified number of significant figures in Excel?

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## RECOMMENDED CITATION

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The process of rounding numbers to a specified number of significant figures in Excel involves utilizing the "ROUND" function. This function allows you to specify the number of digits to which a number should be rounded, as well as the type of round (up, down, or to the nearest number). By using this function and specifying the desired number of significant figures, you can easily and accurately round numbers in your Excel spreadsheet. This feature is particularly useful for dealing with large sets of data and when precision is important.

## Round to Significant Figures in Excel

Often you may want to round a value to a certain number of significant figures in Excel.

You can use the following formula to do so:

```
=ROUND(value,figures-(1+INT(LOG10(ABS(value))))))
```

where:

**value:** The value that you want to round.  
**figures:** The number of significant figures to round to.

Here's what the formula does in a nutshell:

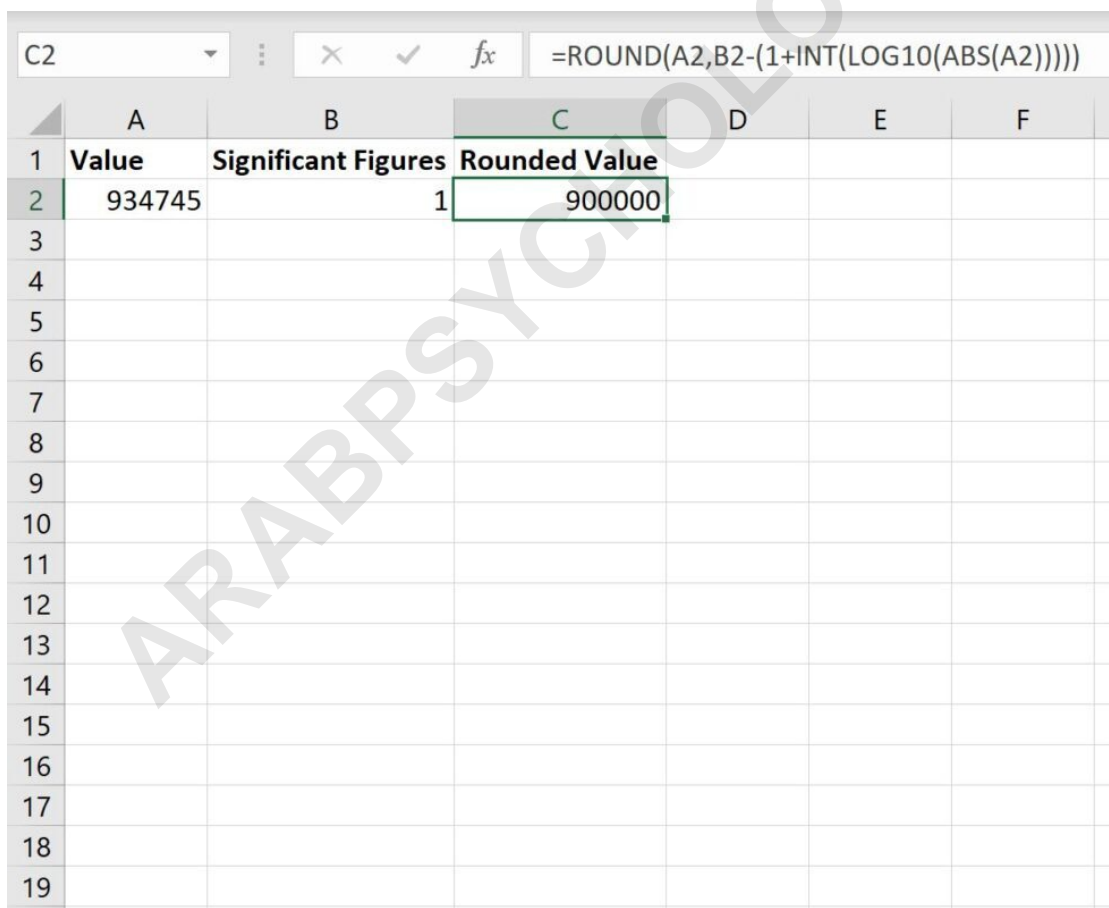
- 1. ABS converts the value to a positive value.**
- 2. LOG10 finds the exponent of the value.**
- 3. INT removes the decimal from the value.**

**4. ROUND then finds the number of significant figures to round to.**

**The following example shows how to use this formula in practice.**

**Example: Rounding to Significant Figures in Excel**

**The following screenshot shows how to round the value 934745 to 1 significant figure:**



	A	B	C	D	E	F
1	<b>Value</b>	<b>Significant Figures</b>	<b>Rounded Value</b>			
2	934745	1	900000			
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
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15						
16						
17						
18						
19						

**We can see that the value 934745 gets rounded to**

**900000.**

**Note that we can round to however many significant figures we'd like:**

	A	B	C	D	E
1	<b>Value</b>	<b>Significant Figures</b>	<b>Rounded Value</b>		
2	934745	1	900000		
3	934745	2	930000		
4	934745	3	935000		
5	934745	4	934700		
6	934745	5	934750		
7	934745	6	934745		
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### **Additional Resources**

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