

How can I round up values in VBA, and what are some examples of using this function?

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In VBA, the Round function is used to round up numerical values to a specified number of decimal places. It takes two arguments, the first being the value to be rounded and the second being the number of decimal places. This function is useful when working with large datasets or when precision is required in calculations. For example, if a company's revenue is \$1234.5678 and we want to round it up to two decimal places, we would use the Round function as follows: Round(1234.5678, 2) which would result in a value of \$1234.57. Additionally, the Round function can be used to round up to the nearest whole number, as well as to round down values.

Round Up Values in VBA (With Examples)

You can use the RoundUp method in VBA to round values up.

This function uses the following basic syntax:

```
Sub RoundUpValue()  
Range(" B1 ") =  
WorksheetFunction.RoundUp(Range("A1"), 0)  
End Sub
```

This particular example will round up the value in cell A1 to the nearest whole number and display the result in cell B1.

Note that the second argument in the RoundUp method specifies the number of digits to round where:

-3 rounds up to the nearest thousand-2 rounds up to the

nearest hundred-1 rounds up to the nearest ten
0 rounds up to the nearest whole number
1 rounds up to the nearest tenth (one decimal place)
2 rounds up to the nearest hundredth (two decimal places)
3 rounds up to the nearest thousandth (three decimal places)

And so on.

The following examples show how to use the RoundUp method in practice.

Example 1: Round Up to Nearest Whole Number in VBA

We can create the following macro to round up the value in cell A1 to the nearest whole number and display the result in cell B1:

```
Sub RoundUpValue()  
Range("B1") =  
WorksheetFunction.RoundUp(Range("A1"), 0)  
End Sub
```

When we run this macro, we receive the following output:

	A	B	C	D	E	F
1	1432.78	1433				
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						

Notice that the value 1,432.78 in cell A1 has been rounded up to the nearest whole number of 1,433 in cell B1.

Example 2: Round Up to Nearest Hundred in VBA

We can create the following macro to round up the value in cell A1 to the nearest hundred and display the result in cell B1:

```
Sub RoundUpValue()
```

```
Range("B1")
```

```
=
```

```
WorksheetFunction.RoundUp(Range("A1"), -2)
```

End Sub

	A	B	C	D	E	F
1	1432.78	1500				
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						

Notice that the value 1,432.78 in cell A1 has been rounded up to the nearest hundred of 1,500 in cell B1.

Example 3: Round Up to Nearest Tenth in VBA

We can create the following macro to round up the value in cell A1 to the nearest tenth (i.e. one decimal place) and display the result in cell B1:

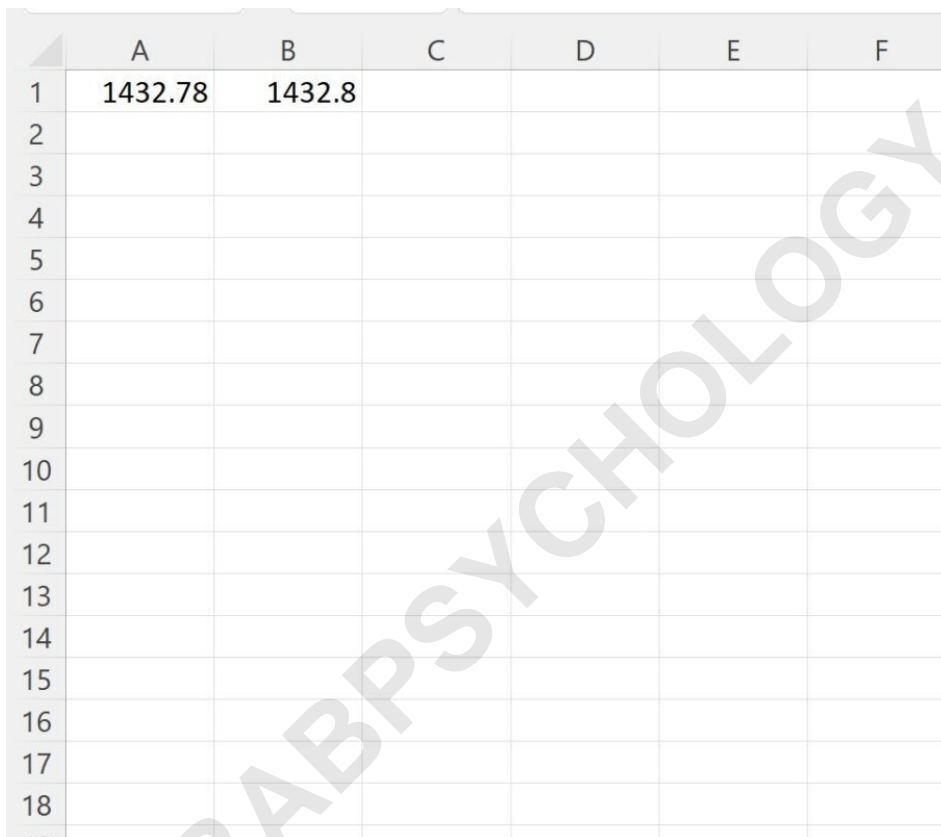
Sub RoundUpValue()

Range("B1")

=

```
WorksheetFunction.RoundUp(Range("A1"), 1)  
End Sub
```

When we run this macro, we receive the following output:



	A	B	C	D	E	F
1	1432.78	1432.8				
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						

Notice that the value 1,432.78 in cell A1 has been rounded up to the nearest tenth of 1,432.8 in cell B1.

Note: You can find the complete documentation for the VBA RoundUp method .