

# Access: Round Function

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In Access, the **Round** function returns a number rounded to a specified number of decimal places. However, the **Round** function behaves a little peculiar, so before using this function, please read the following:

The **Round** function utilizes round-to-even logic. If the expression that you are rounding ends with a 5, the **Round** function will round the expression so that the last digit is an even number. For example:

Round (12.55, 1)        would return 12.6 (rounds up)

Round (12.65, 1)        would return 12.6 (rounds down)

Round (12.75, 1)        would return 12.8 (rounds up)

In these cases, the last digit after rounding is always an even number. So, be sure to only use the **Round** function if this is your desired result.

*Acknowledgements:* A special thanks to Mary S. for bringing this to our attention.

The syntax for the **Round** function is:

Round ( expression, [ decimal\_places ] )

*expression* is a numeric expression that is to be rounded.

*decimal\_places* is optional. It is the number of decimal places to round the *expression* to. If this parameter is omitted, then the Round function will return an integer.

For example:

Round (210.67, 1)        would return 210.7

Round (210.67, 0)        would return 211

Round (210.67)            would return 211

## VBA Code

The **Round** function can be used in VBA code. For example:

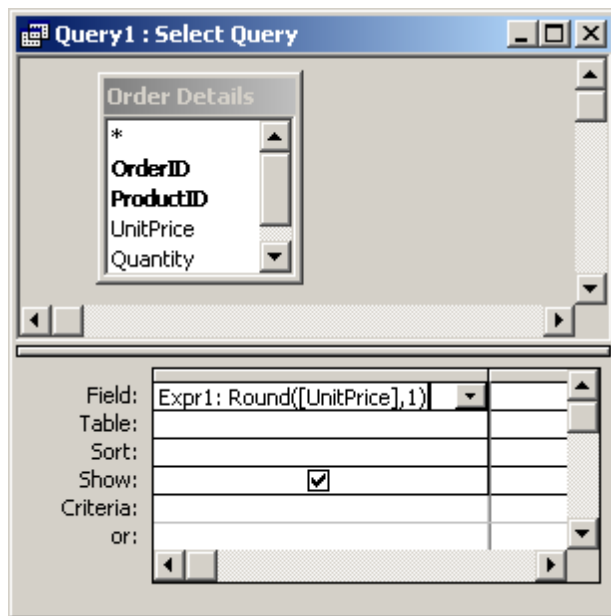
```
Dim LNumber As Double
```

```
LNumber = Round (210.67, 1)
```

In this example, the variable called LNumber would now contain the value of 210.7.

# SQL/Queries

You can also use the **Round** function in a query.



## Frequently Asked Questions

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**Question:** I read your explanation of the Round function using the round-to-even logic. However, I really need to round some values in the traditional sense (where 5 always rounds up). How can I do this?

**Answer:** You could always use the following logic:

If you wanted to round 12.65 to 1 decimal place in the traditional sense (where 12.65 rounded to 1 decimal place is 12.7, instead of 12.6), try adding 0.000001 to your number before applying the Round function:

`Round(12.45+0.000001,1)`

By adding the 0.000001, the expression that you are rounding will end in 1, instead of 5...causing the Round function to round in the traditional way.

And the 0.000001 does not significantly affect the value of your expression so you shouldn't introduce any calculation errors.