

# How can I find the minimum value in a range using VBA code?

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## RECOMMENDED CITATION

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To find the minimum value in a range using VBA code, one can use the built-in function "Min" which returns the smallest value in a given range. This function can be applied to a specific range of cells or an array of values, making it a useful tool for data analysis and manipulation. By using VBA code to call the "Min" function, one can easily determine the lowest value in a range and use it for further calculations or comparisons. This method allows for efficient and accurate identification of the minimum value within a given range in Excel, making it a valuable technique for data processing and automation.

## VBA: Find Minimum Value in Range

You can use the following basic syntax to calculate the minimum value in a range using VBA:

```
Sub MinValue()  
Range("D2") =  
WorksheetFunction.Min(Range("B2:B11"))  
End Sub
```

This particular example calculates the minimum value in the range B2:B11 and assigns the result to cell D2.

If you would instead like to display the minimum value in a message box, you can use the following syntax:

```
Sub MinValue()  
'Create variable to store min value  
Dim minValue As  
Single
```

## 'Calculate min value in range

```
minValue = WorksheetFunction.Min(Range("B2:B11"))
```

## 'Display the result

```
MsgBox "Min Value in Range: " & minValue
```

```
End Sub
```

The following examples shows how to use each of these methods in practice with the following dataset in Excel that contains information about various basketball players:

	A	B	C	D	E	F
1	<b>Team</b>	<b>Points</b>				
2	Mavs	22				
3	Heat	20				
4	Spurs	40				
5	Rockets	43				
6	Nets	39				
7	Warriors	24				
8	Thunder	10				
9	Hawks	13				
10	Magic	19				
11	Kings	15				
12						
13						
14						
15						
16						
17						
18						
19						

## Example 1: Calculate Minimum Value of Range Using VBA and Display Results in Cell

Suppose we would like to calculate the minimum value in the points column and output the results in a specific cell.

We can create the following macro to do so:

```
Sub MinValue()  
Range("D2") =  
WorksheetFunction.Min(Range("B2:B11"))  
End Sub
```

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

	A	B	C	D	E	F
1	<b>Team</b>	<b>Points</b>				
2	Mavs	22		10		
3	Heat	20				
4	Spurs	40				
5	Rockets	43				
6	Nets	39				
7	Warriors	24				
8	Thunder	10				
9	Hawks	13				
10	Magic	19				
11	Kings	15				
12						
13						
14						
15						
16						
17						
18						
19						

**Notice that cell D2 contains a value of 10.**

**This tells us that the minimum value in the points column is 10.**

**Example 2: Calculate Minimum Value of Range Using VBA and Display Results in Message Box**

**We can create the following macro to do so:**

**Sub MinValue()**

**'Create variable to store min valueDim minValue As**

## Single

**'Calculate min value in range**

**minValue = WorksheetFunction.Min(Range("B2:B11"))**

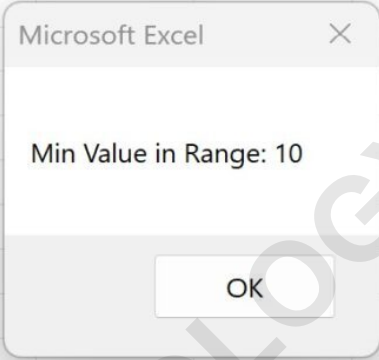
**'Display the result**

**MsgBox "Min Value in Range: " & minValue**

**End Sub**

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

	A	B	C	D	E	F	G
1	<b>Team</b>	<b>Points</b>					
2	Mavs	22					
3	Heat	20					
4	Spurs	40					
5	Rockets	43					
6	Nets	39					
7	Warriors	24					
8	Thunder	10					
9	Hawks	13					
10	Magic	19					
11	Kings	15					
12							
13							
14							
15							
16							
17							
18							
19							
20							



**The message box tells us that the minimum value in the range B2:B11 is 10.**

**Note that in this example we calculated the minimum value in the range B2:B11.**

**However, if you'd like to instead calculate the minimum value in an entire column you could type B:B instead.**

**This will calculate the minimum value in all of column B.**