How can I sum the values in a range using VBA?

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The process of summing values in a range using VBA involves utilizing the built-in function "Sum" to add the numerical values within a specified range. This can be achieved by first declaring the range using the "Range" object and then using the "Sum" function to calculate the total value. Additionally, the "For Loop" can be used to iterate through each cell in the range and add its value to a running total. This method allows for efficient and accurate calculation of the sum of values in a given range using VBA.

VBA: Sum Values in Range

You can use the following basic syntax to calculate the sum of values in a range using VBA:

```
Sub SumValues()
Range("D2") =
WorksheetFunction.Sum(Range("B2:B11"))
End Sub
```

This particular example calculates the sum of values in the range B2:B11 and assigns the result to cell D2.

If you would instead like to display the sum of values in a message box, you can use the following syntax:

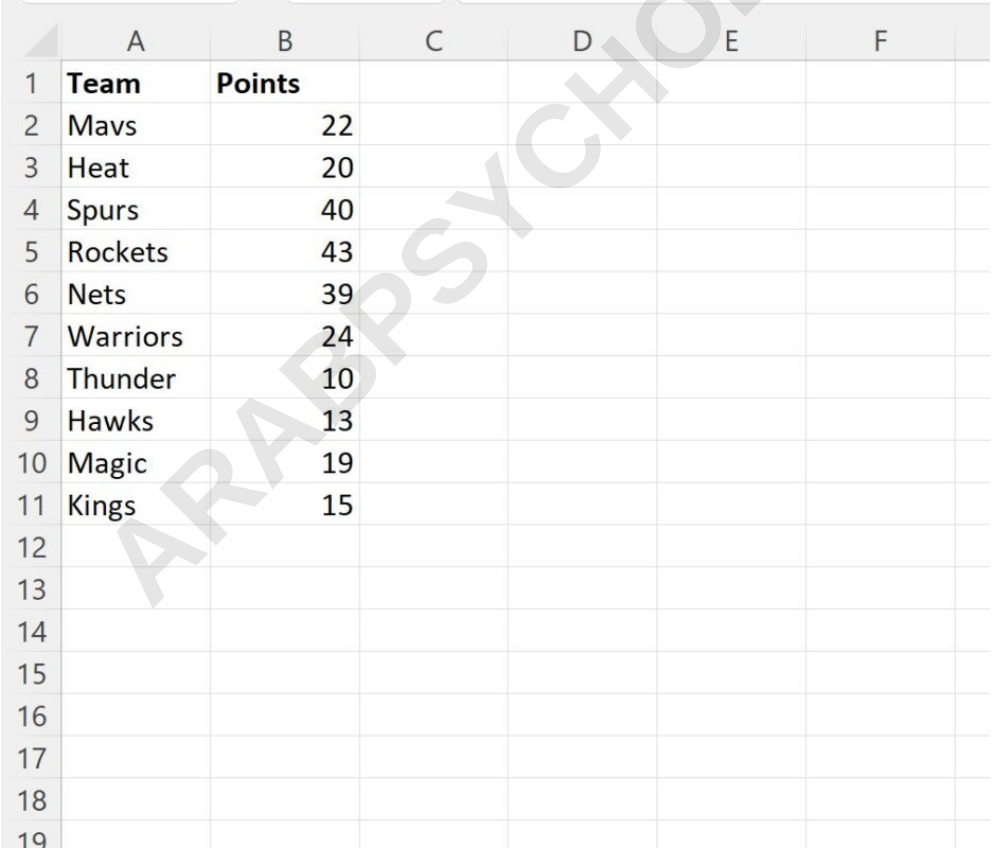
```
Sub SumValues()
'Create variable to store sum of valuesDim sum As
Single

'Calculate sum of values in range
```

```
sum = WorksheetFunction.Sum(Range("B2:B11"))

'Display the result
MsgBox "Sum of Values in Range: " & sum
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	**Team**	**Points**				
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						

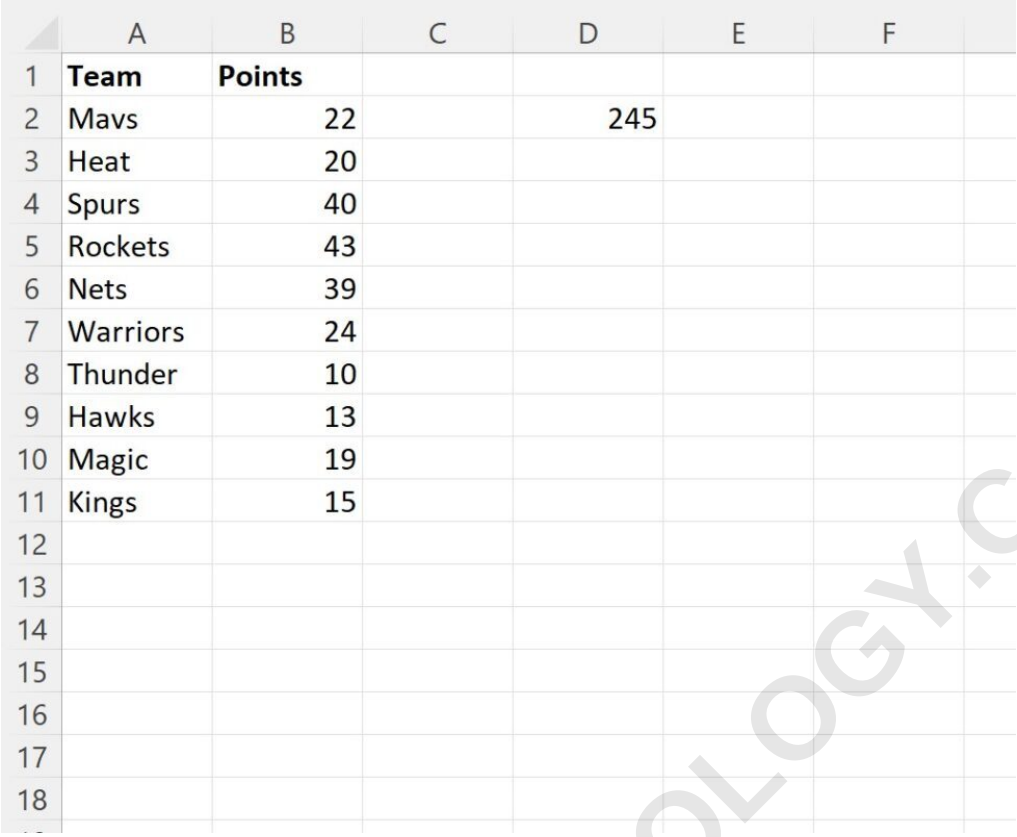
Example 1: Calculate Sum of Range Using VBA and Display Results in Cell

Suppose we would like to calculate the sum of values in the points column and output the results in a specific cell.

We can create the following macro to do so:

```
Sub SumValues()
Range("D2") =
WorksheetFunction.Sum(Range("B2:B11"))
End Sub
```

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



	A	B	C	D	E	F
1	**Team**	**Points**				
2	Mavs	22		245		
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						

Notice that cell D2 contains a value of 245.

This tells us that the sum of values in the points column is 245.

Example 2: Calculate Sum of Range Using VBA and Display Results in Message Box

Suppose we would instead like to calculate the sum of values in the points column and output the results in a message box.

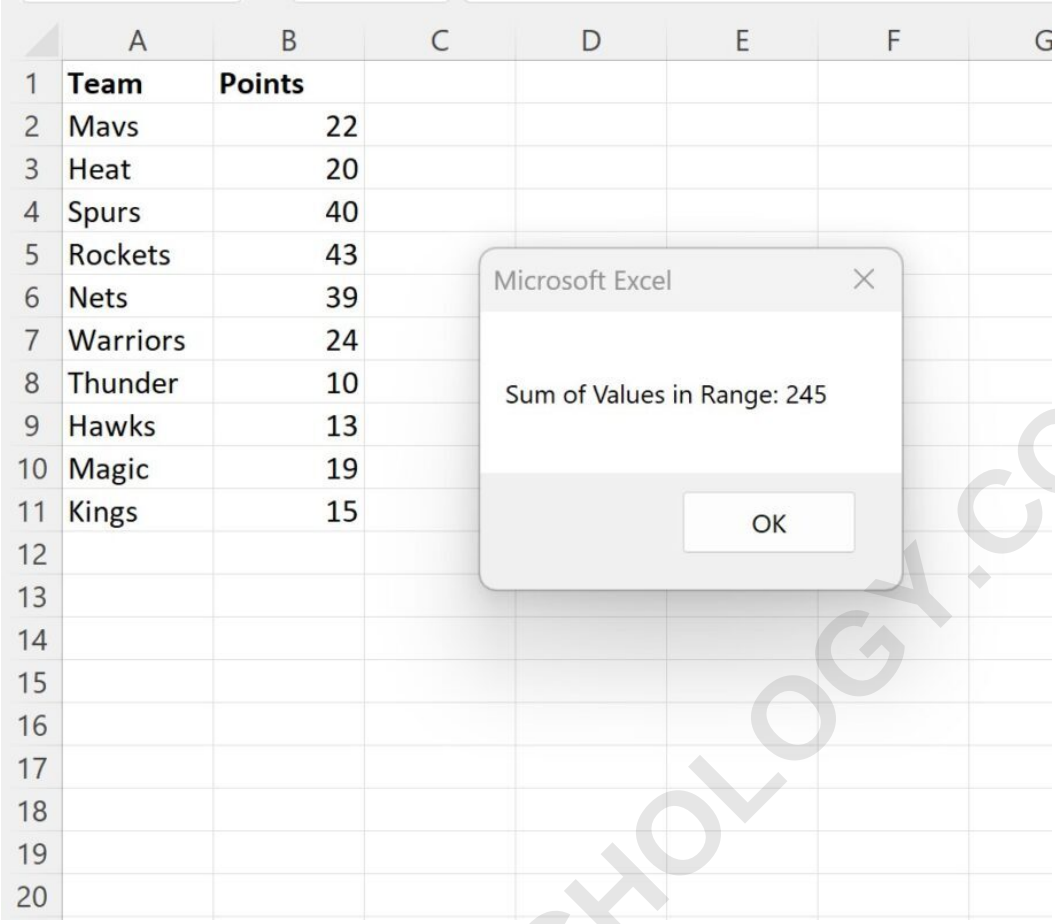
Sub SumValues()

'Create variable to store sum of valuesDim sum As Single

'Calculate sum of values in range
sum = WorksheetFunction.Sum(Range("B2:B11"))

'Display the result
MsgBox "Sum of Values in Range: " & sum
End Sub

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



The message box tells us that the sum of values in the range B2:B11 is 245.

Note that in this example we calculated the sum of values in the range B2:B11.

However, if you'd like to instead calculate the sum of values in an entire column you could type B:B instead.

This will calculate the sum of values for every cell in column B.