

# How to Use the Raspberry Pi in VBA Calculations

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## RECOMMENDED CITATION

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The Raspberry Pi, commonly referred to as Pi, is a popular single-board computer capable of performing various tasks ranging from basic computing to advanced programming. One question that arises is whether Pi can be utilized for calculations in VBA (Visual Basic for Applications), a programming language commonly used in Microsoft Office applications. The answer is yes, Pi can be used in calculations in VBA. With the proper setup and configuration, Pi can be integrated with VBA to perform complex mathematical calculations, making it a versatile tool for data analysis and processing. This combination of Pi and VBA offers a powerful and efficient solution for various computational tasks, making it a valuable asset for developers and users alike.

## VBA: Use Pi in Calculations

**In mathematics, Pi is an irrational number (a decimal with no end) that is equal to roughly 3.14.**

**To use Pi in calculations in VBA, you can use the following syntax:**

**Function MultiplyByPi(inputVal)**

**Dim Pi As Double**

**MultiplyByPi = inputVal \***

**Application.WorksheetFunction.Pi()**

**End Function**

**This particular function allows you to multiply any value in Excel by Pi.**

**Note that `Application.WorksheetFunction.Pi` returns the value 3.14159265358979, which is the constant Pi accurate to 15 digits.**

**If you need a calculation to be more accurate than 15 digits, you can simply hard code Pi to as many digits as you would like.**

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

**Example: How to Use Pi in VBA**

**Suppose we have the following list of values in Excel that we would like to multiply by Pi:**

	A	B	C	D	E
1	<b>Values</b>				
2	1				
3	2				
4	3				
5	4				
6	5				
7	6				
8	7				
9	8				
10	9				
11	10				
12					
13					
14					
15					
16					

To do so, we can create the following function in VBA:

**Function MultiplyByPi(inputVal)**

**Dim Pi As Double**

**MultiplyByPi = inputVal \*  
Application.WorksheetFunction.Pi()**

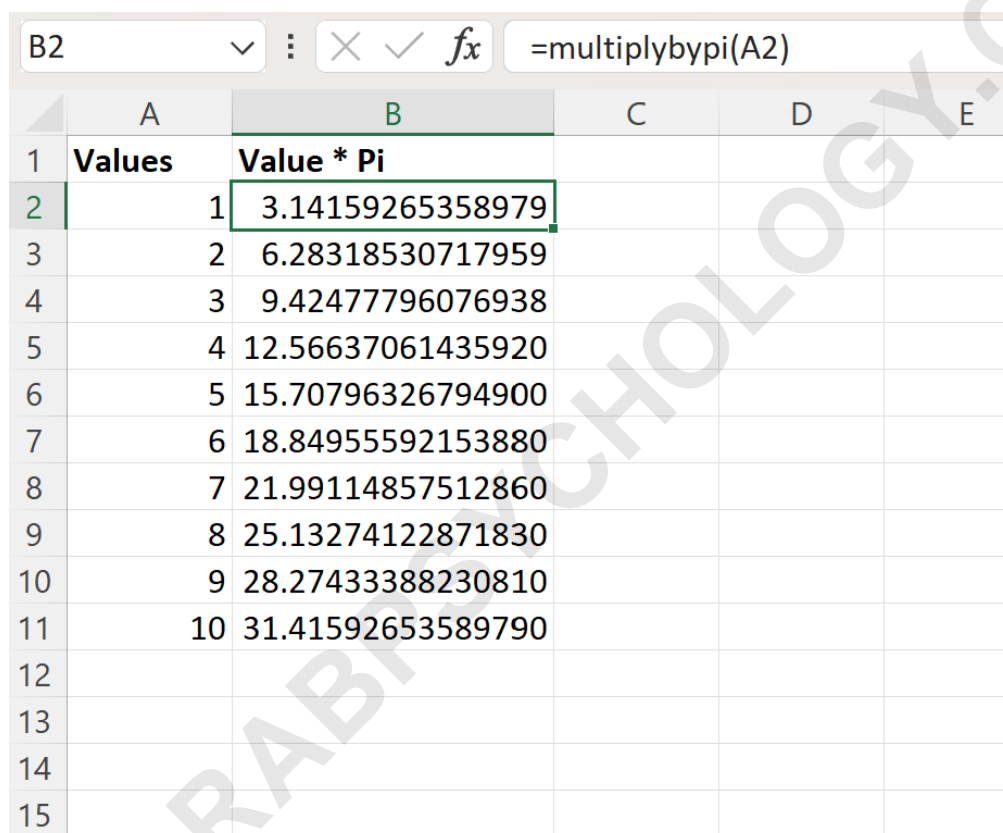
**End Function**

Once we've created this function, we can then type the following formula into cell B2 to multiply the value in

cell A2 by Pi:

**=MultiplyByPi(A2)**

We can then click and drag this formula down to each remaining cell in column B:



The screenshot shows an Excel spreadsheet with the following data:

	A	B	C	D	E
1	Values	Value * Pi			
2	1	3.14159265358979			
3	2	6.28318530717959			
4	3	9.42477796076938			
5	4	12.56637061435920			
6	5	15.70796326794900			
7	6	18.84955592153880			
8	7	21.99114857512860			
9	8	25.13274122871830			
10	9	28.27433388230810			
11	10	31.41592653589790			
12					
13					
14					
15					

The formula bar at the top shows the formula `=multiplybypi(A2)` being entered into cell B2. The spreadsheet is watermarked with 'ARABIAN PSYCHOLOGY.COM'.

Column B now shows each value in column A multiplied by Pi.