

# How can I use RandBetween in VBA to generate random numbers?

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## RECOMMENDED CITATION

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RandBetween is a built-in function in VBA that allows users to generate random numbers within a specified range. By using this function, a programmer can easily generate random numbers to be used in various applications, such as creating random passwords or simulating random events. The function takes two parameters, the minimum and maximum values, and returns a random number within that range. This allows for flexibility and customization in generating random numbers. Overall, the RandBetween function in VBA provides a convenient and efficient way to generate random numbers for various programming purposes.

## **VBA: Use RandBetween to Generate Random Numbers**

**You can use the RandBetween method in VBA to generate a random integer between two specific values.**

**Here are two common ways to use this method in practice:**

### **Method 1: Use RandBetween to Generate One Random Integer**

```
Sub GenerateRandomInteger()
```

```
Range("A1") = WorksheetFunction.RandBetween(1, 100)
```

```
End Sub
```

**This particular macro will generate one random integer between 1 and 100 in cell A1.**

### **Method 2: Use RandBetween to Generate Several Random Integers**

## **Sub GenerateMultipleRandomIntegers()**

**Dim i As Integer**

**For i = 1 To 10**

**Range("A" & i) = WorksheetFunction.RandBetween(1, 100)**

**Next i**

**End Sub**

**This particular macro will generate one random integer between 1 and 100 for each cell in the range A1:A10.**

**The following examples show how to use each of these methods in practice.**

**Example 1: Use RandBetween to Generate One Random Integer**

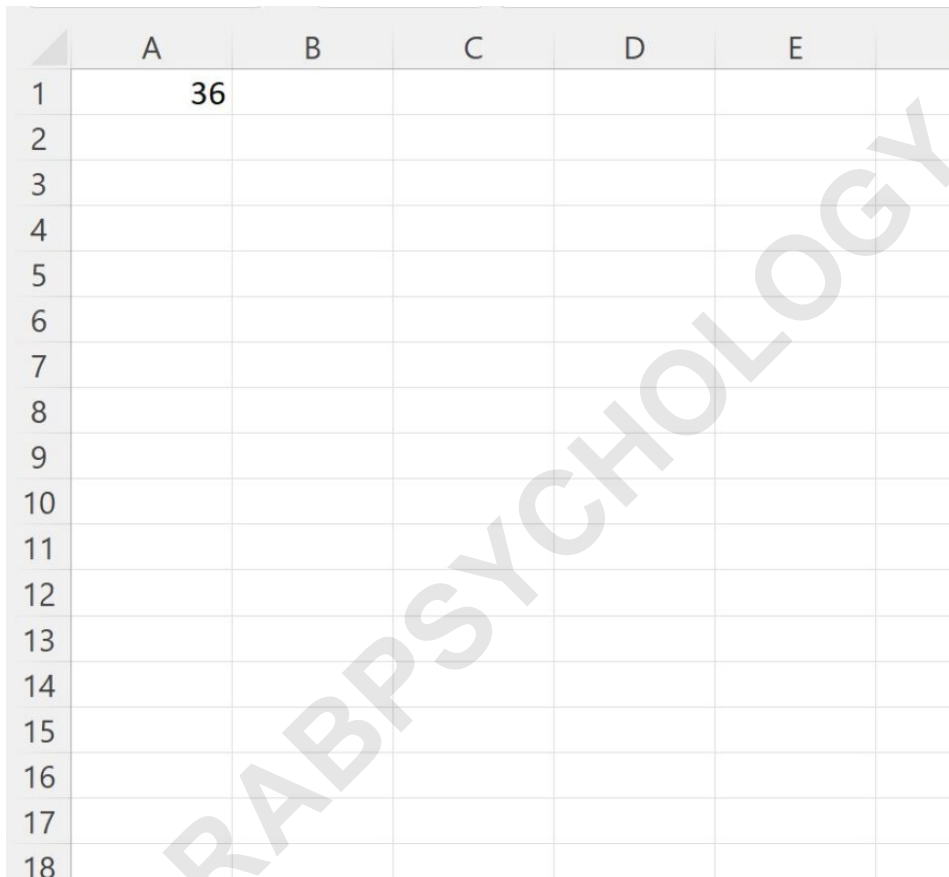
**Suppose we would like to generate a random number between 1 and 100 and place the result in cell A1 of our current sheet in Excel.**

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

**Sub GenerateRandomInteger()**

```
Range("A1") = WorksheetFunction.RandBetween(1, 100)
End Sub
```

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



The image shows a screenshot of an Excel spreadsheet. The columns are labeled A through F, and the rows are numbered 1 through 18. The value 36 is displayed in cell A1. A large, diagonal watermark reading 'ARABPSYCHOLOGY.COM' is overlaid on the spreadsheet.

|    | A  | B | C | D | E | F |
|----|----|---|---|---|---|---|
| 1  | 36 |   |   |   |   |   |
| 2  |    |   |   |   |   |   |
| 3  |    |   |   |   |   |   |
| 4  |    |   |   |   |   |   |
| 5  |    |   |   |   |   |   |
| 6  |    |   |   |   |   |   |
| 7  |    |   |   |   |   |   |
| 8  |    |   |   |   |   |   |
| 9  |    |   |   |   |   |   |
| 10 |    |   |   |   |   |   |
| 11 |    |   |   |   |   |   |
| 12 |    |   |   |   |   |   |
| 13 |    |   |   |   |   |   |
| 14 |    |   |   |   |   |   |
| 15 |    |   |   |   |   |   |
| 16 |    |   |   |   |   |   |
| 17 |    |   |   |   |   |   |
| 18 |    |   |   |   |   |   |

Notice that cell A1 contains a value of 36.

Note that each time we run this macro, a different integer value between 1 and 100 could be generated.

## Example 2: Use RandBetween to Generate Several Random Integers

Suppose we would instead like to generate a random integer between 1 and 100 for each cell in the range A1:A10.

We can create the following macro to do so:

```
Sub GenerateMultipleRandomIntegers()
```

```
Dim i As Integer
```

```
For i = 1 To 10
```

```
Range("A" & i) = WorksheetFunction.RandBetween(1,  
100)
```

```
Next i
```

```
End Sub
```

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

|    | A  | B | C | D | E | F |
|----|----|---|---|---|---|---|
| 1  | 98 |   |   |   |   |   |
| 2  | 60 |   |   |   |   |   |
| 3  | 82 |   |   |   |   |   |
| 4  | 95 |   |   |   |   |   |
| 5  | 9  |   |   |   |   |   |
| 6  | 49 |   |   |   |   |   |
| 7  | 56 |   |   |   |   |   |
| 8  | 24 |   |   |   |   |   |
| 9  | 48 |   |   |   |   |   |
| 10 | 48 |   |   |   |   |   |
| 11 |    |   |   |   |   |   |
| 12 |    |   |   |   |   |   |
| 13 |    |   |   |   |   |   |
| 14 |    |   |   |   |   |   |
| 15 |    |   |   |   |   |   |
| 16 |    |   |   |   |   |   |

**Notice that each cell in the range A1:A10 contains a random integer between 1 and 100.**

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