

# How can I use the MOD operator in VBA, and can you provide some examples?

Authored by  
**stats writer**

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## RECOMMENDED CITATION

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The MOD operator in VBA, also known as the modulus operator, is used to obtain the remainder of a division operation. It is denoted by the percentage sign (%). This operator can be useful in various programming tasks such as checking for even or odd numbers, looping through a specific range of numbers, and performing calculations involving repeated patterns. To use the MOD operator in VBA, simply place it between two numerical values in a division operation. For example, 10 MOD 3 will result in a remainder of 1. Other examples of using the MOD operator in VBA include checking if a number is divisible by another number, generating a sequence of repeating numbers, and checking for leap years.

## Use MOD Operator in VBA (With Examples)

**You can use the Mod operator in VBA to calculate the remainder of a division.**

**Here are two common ways to use this operator in practice.**

### Method 1: Use Mod Operator with Hard Coded Values

```
Sub UseMod()  
Range("A1") = 20 Mod 6  
End Sub
```

**This particular example will return the remainder of 20 divided by 6 in cell A1.**

### Method 2: Use Mod Operator with Cell References

```
Sub UseMod()
```

```
Range("C2") = Range("A2") Mod Range("B2")  
End Sub
```

This particular example will calculate the remainder of the value in cell A2 divided by the value in cell B2 and output the result in cell C2.

The following examples show how to use each method in practice.

**Example 1: Use Mod Operator with Hard Coded Values**

Suppose we would like to calculate the remainder of 20 divided by 6 and output the result in cell A1.

We can create the following macro to do so:

```
Sub UseMod()  
Range("A1") = 20 Mod 6  
End Sub
```

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

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

**The result of 20 Mod 6 turns is 2.**

**This value is shown in cell A1, just as we specified in the macro.**

**Example 2: Use Mod Operator with Cell References**

**Suppose we would like to calculate the remainder of the value in cell A2 divided by the value in cell B2 and output the result in cell C2.**

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

**Sub UseMod()**

```
Range("C2") = Range("A2") Mod Range("B2")  
End Sub
```

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

	A	B	C	D	E
1	This Value	Divided by This Value	Mod		
2	20	6	2		
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					

The result of 20 Mod 6 turns is 2.

This value is shown in cell C2, just as we specified in the macro.

**Note:** You can find the complete documentation for the

## VBA Mod operator .

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