

Mr. Giansante



Visual Basic

Mathematical Operators

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Mathematical Operators

You can use the following mathematical operators when writing equations:

+	Addition
-	Subtraction
*	Multiplication
/	Division
\	Integer Division (no remainder)
^	Exponent

Order of Operations

Visual Basic follows the standard rules for the order in which it evaluates operations. This is sometimes referred to as "BEDMAS".

Brackets

Exponents

Division

Multiplication

Addition

Subtraction

} in order
they appear

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they appear

Mod Operator

The `Mod()` operator returns the remainder from division.

Example - Is a number even or odd?

If you divide a number by 2 and there is no remainder, then the number is even.

```
If x mod 2 = 0 then
    MessageBox.Show("Number is even")
Else
    MessageBox.Show("Number is odd")
End if
```

Example - Converting Temperature

The formula to convert Fahrenheit (°F) to Celsius (°C) is:

$$^{\circ}\text{C} = (^{\circ}\text{F} - 32) \times \frac{5}{9}$$

In Visual Basic, we could declare 2 variables and use the following formula:

$$C = (F - 32) * (5 / 9)$$