

C# Math.Truncate() – Syntax & Examples

C# Math.Truncate() – Examples

In this tutorial, we will learn about the C# Math.Truncate() method, and learn how to use this method to truncate a given decimal or double value, with the help of examples.

Truncate(Decimal)

Math.Truncate(d) returns the integral part of a specified decimal number `d`.

Syntax

The syntax of Truncate() method is

```
Math.Truncate(Decimal d)
```

where

Parameter	Description	
d	The decimal value which is to be truncated.	

Return Value

The method returns decimal value after truncation.

Example 1 – Truncate()

In this example, we will take some decimal values and use Truncate() method to get the integral part of the respective numbers.

C# Program

```
using System;
```

```

class Example {
    static void Main(string[] args) {
        Decimal d, result;

        d = 7.5785M;
        result = Math.Truncate(d);
        Console.WriteLine($"Truncate of {d} is {result}.");

        d = -7.5785M;
        result = Math.Truncate(d);
        Console.WriteLine($"Truncate of {d} is {result}.");

        d = 0.17525M;
        result = Math.Truncate(d);
        Console.WriteLine($"Truncate of {d} is {result}.");
    }
}

```

Output

```

Truncate of 7.5785 is 7.
Truncate of -7.5785 is -7.
Truncate of 0.17525 is 0.

```

Truncate(Double)

Math.Truncate(d) returns the integral part of a specified double-precision floating-point number `d`.

Syntax

The syntax of Truncate() method is

```
Math.Truncate(Double d)
```

where

Parameter	Description
d	The double value which is to be truncated.

Return Value

The method returns double value after truncation.

Example 2 – Truncate()

In this example, we will take some double-precision floating-point numbers and use Truncate() method to get the integral part of the respective numbers.

C# Program

```
using System;

class Example {
    static void Main(string[] args) {
        Double d, result;

        d = 7.5785;
        result = Math.Truncate(d);
        Console.WriteLine($"Truncate of {d} is {result}.");

        d = -7.5785;
        result = Math.Truncate(d);
        Console.WriteLine($"Truncate of {d} is {result}.");

        d = Double.NaN;
        result = Math.Truncate(d);
        Console.WriteLine($"Truncate of {d} is {result}.");

        d = Double.PositiveInfinity;
        result = Math.Truncate(d);
        Console.WriteLine($"Truncate of {d} is {result}.");

        d = Double.NegativeInfinity;
        result = Math.Truncate(d);
        Console.WriteLine($"Truncate of {d} is {result}.");
    }
}
```

Output

```
Truncate of 7.5785 is 7.
Truncate of -7.5785 is -7.
Truncate of NaN is NaN.
Truncate of ∞ is ∞.
Truncate of -∞ is -∞.
```

Conclusion

In this [C# Tutorial](#), we have learnt the syntax of C# Math.Truncate() method, and also learnt how to use this method with the help of examples.

C# Math

◆ [C# Math.Abs\(\)](#)

◆ `C# Math.Acos()`

◆ `C# Math.Acosh()`

◆ `C# Math.Asin()`

◆ `C# Math.Asinh()`

◆ `C# Math.Atan()`

◆ `C# Math.Atan2()`

◆ `C# Math.Atanh()`

◆ `C# Math.BigMul()`

◆ `C# Math.BitDecrement()`

◆ `C# Math.BitIncrement()`

◆ `C# Math.Cbrt()`

◆ `C# Math.Ceiling()`

◆ `C# Math.Clamp()`

◆ `C# Math.CopySign()`

◆ `C# Math.Cos()`

◆ `C# Math.Cosh()`

◆ `C# Math.DivRem()`

◆ `C# Math.Exp()`

◆ `C# Math.Floor()`

◆ `C# Math.FusedMultiplyAdd()`

◆ `C# Math.IEEERemainder()`

◆ `C# Math.ILogB()`

◆ `C# Math.Log()`

◆ `C# Math.Log10()`

◆ `C# Math.Log2()`

◆ `C# Math.Max()`

◆ `C# Math.MaxMagnitude()`

◆ `C# Math.Min()`

◆ `C# Math.MinMagnitude()`

◆ `C# Math.Pow()`

◆ `C# Math.Round()`

◆ `C# Math.ScaleB()`

◆ [C# Math.Sign\(\)](#)

◆ [C# Math.Sin\(\)](#)

◆ [C# Math.Sinh\(\)](#)

◆ [C# Math.Sqrt\(\)](#)

◆ [C# Math.Tan\(\)](#)

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