**Discover The Original Price**

32285% *of* 319481 *of* 1,847[ahamidou](https://www.codewars.com/users/ahamidou)

C#

* [Train Again](https://www.codewars.com/kata/discover-the-original-price/train/csharp)
* [Next Kata](https://www.codewars.com/trainer/csharp)

Details

[Solutions](https://www.codewars.com/kata/discover-the-original-price/solutions/csharp)

[Discourse (61)](https://www.codewars.com/kata/discover-the-original-price/discuss/csharp)

* Add to Collection
* |
* Share this kata:

We need to write some code to return the original price of a product, the return type must be of type decimal and the number must be rounded to two decimal places.

We will be given the sale price (discounted price), and the sale percentage, our job is to figure out the original price.

**For example:**

Given an item at $75 sale price after applying a 25% discount, the function should return the original price of that item before applying the sale percentage, which is ($100.00) of course, rounded to two decimal places.

DiscoverOriginalPrice(75, 25) => 100.00M where 75 is the sale price (discounted price), 25 is the sale percentage and 100 is the original price

Fundamentals

Numbers

Arithmetic

Mathematics

Algorithms

<https://www.codewars.com/kata/discover-the-original-price/csharp>

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

namespace ConsoleApplication1

{

class Program

{

public static class Kata

{

public static decimal DiscoverOriginalPrice(decimal discountedPrice, decimal salePercentage)

{

return Math.Round(discountedPrice / (1 - salePercentage / 100), 2);

}

}

public static class Kata

{

public static decimal DiscoverOriginalPrice(decimal discountedPrice, decimal salePercentage)

=> Math.Round(discountedPrice / (1 - salePercentage / 100), 2);

}

public static class Kata

{

public static decimal DiscoverOriginalPrice(decimal discountedPrice, decimal salePercentage)

{

return Decimal.Round(discountedPrice \* 100 / (100 - salePercentage),2);

}

}

public static class Kata

{

public static decimal DiscoverOriginalPrice(decimal discountedPrice, decimal salePercentage)

{

decimal OriPrice;

OriPrice=discountedPrice/(1-salePercentage/100);

return decimal.Round(OriPrice,2);

}

}

//---------mi solucion--------

public static decimal DiscoverOriginalPrice(decimal discountedPrice, decimal salePercentage)

{

//TODO: Some code here!

double x = 1 - ((double)salePercentage / 100.0);

//Console.WriteLine(x);

return Decimal.Round((decimal)(discountedPrice / (decimal)x), 2);

}

static void Main(string[] args)

{

Console.WriteLine( DiscoverOriginalPrice(75, 25));

Console.ReadLine();

}

}

}