

Programming Assignment: Diameter, Circumference and Area of a Circle (C# Only)

Here's

a peek ahead. In this chapter, you have learned about integers and the type `int`. C# also can represent floating-point numbers that contain decimal points, such as 3.14159. Write an app that inputs from the user the radius of a circle as an integer and displays the circle's diameter, circumference and area using the floating-point value 3.14159 for π . Use the techniques shown in Fig 3.14. *Note:* You may also use the predefined constant `Math.PI` for the value of π . This constant is more precise than the value 3.14159. Class `Math` is defined in namespace `System`. Use the following formulas (r is the radius)

$$\text{diameter} = 2r$$

$$\text{circumference} = 2\pi r$$

$$\text{area} = \pi r^2$$

Submission should have:

- Source Code in CS format (**No accepted screenshots**)
 - It should contain proper indentation
 - Comments (Blocks or Lines)
 - Good Variables initializations
 - Good questions asking for the parameters of the code
 - Input Validation
 - Output display with explanation
- Screenshot (Image) of the code executed in your computers/server, with the questions asked, user data submission and formatted final result.