JavaScript – Lab 5: Shape Functions (Functions)

Assigned: 10/19/22

Due: 10/20/22

Completed: 10/19/22

<https://lms.grandcircus.co/mod/assign/view.php?id=22729>

<https://docs.google.com/document/d/1crUUMe8dU-4Ir7_DZlgBWrKXmU72jbMDhapGSbt1pHk/preview>

<https://github.com/clintmsmith/GrandCircusLabs/tree/main/Shape_Functions>

**Skills**: Functions

* **Assignment:**Write a function named getAreaOfCircle. It takes a radius parameter. It calculates and returns the area of a circle with that radius.
* Write a function named getCircumferenceOfCircle. It takes a radius parameter. It calculates and returns the circumference of a circle with that radius.
* Write a function named getAreaOfSquare. It takes a side parameter. It calculates and returns the area of a square with that side length.
* Write a function named getAreaOfTriangle. It takes two parameters: base and height. It calculates and returns the area of a triangle with that base and height.

Call each of these functions and log the result to the console. (NOTE: None of these functions should use console.log within them. Instead, they must return the calculated value.)

**JavaScript**

// Get Area of Circle

function getAreaOfCircle (radius1) {

    return ((radius1 \* Math.PI)\*\*2);

}

let areaCircle = getAreaOfCircle(5);

console.log (areaCircle);

console.log();

// Get Circumference of Circle

function getCircumferenceOfCircle (radius2) {

    return (2 \* Math.PI \* radius2);

}

let circumference = getCircumferenceOfCircle (5);

console.log (circumference);

console.log();

// Get Area of Square

function getAreaOfSquare (side) {

    return (side \* 4);

}

let areaSquare = getAreaOfSquare (5);

console.log (areaSquare);

console.log()

// Get Area of Triangle

function getAreaOfTriangle (base, height) {

    return (0.5 \* base \* height);

}

let areaTriangle = getAreaOfTriangle (5, 5);

console.log (areaTriangle);

**Console:** (using 5 for all values)

C:\GrandCircus\GrandCircusLabs\Shape\_Functions>node Shape\_Functions.js

246.74011002723395

31.41592653589793

20

12.5

**Console:** (using 10 for all values)

986.9604401089358

62.83185307179586

40

50