

CSCI 215: Website Programming

Lab 02: JavaScript, Variables, and Calculations (50 points)

Assignment

Compute the Body Surface Area (BSA), Ideal Body Weight (Male or Female), and Body Mass Index (BMI) values using the JavaScript programming language.

When finished, **only** upload the completed behavior.txt file to Dropbox.

To check the correctness of your calculations, you may use this website:
<http://www.medcalc.com/body.html>

Have fun, and good luck!

Calculations

$$\text{Body Surface Area (BSA)} = \sqrt{\frac{\text{height}(cm) * \text{weight}(kg)}{3600}}$$

$$\text{Ideal Body Weight (Men)} = 50 + 2.3 * (\text{height}(in) - 60)$$

$$\text{Ideal Body Weight (Women)} = 45.5 + 2.3 * (\text{height}(in) - 60)$$

$$\text{Body Mass Index (BMI)} = \frac{\text{weight}(kg)}{\text{height}(m)^2}$$

Zip file (L2.zip)

Contains the following txt files (that can be loaded into jsFiddle)

- presentation.txt (styles)
- structure.txt (html)
- behavior.txt (javascript)

Hints

Calculate Square Root

Syntax: `Math.sqrt(x)`
Description: returns the square root of x

Calculate Power

Syntax: `Math.pow(x, y)`
Description: returns the value of x raised to the power of y

Multiplication

Syntax: `a * b`
Description: returns a times b

Division

Syntax: `a / b`
Description: returns a divided by b

Addition

Syntax: `a + b`
Description: returns a plus b

Subtraction

Syntax: `a - b`
Description: returns a minus b