CSC 108 Quiz # 6 Name

***Multiple Choice:***/\* 2 points each \*/

1. In this function definition, what is the parameter?

void rollDice(int numSides) {

int d = 1 + int(random(numSides));

println("Rolling... " + d);

}

A) void C) numSides

B) rollDice D) d

E) None of these

2. In this function definition, what is the return type?

void rollDice(int numSides) {

int d = 1 + int(random(numSides));

println("Rolling... " + d);

}

A) void C) numSides

B) rollDice D) d

E) None of these

***Short Answer:***

1. Explain, on each numbered line, what Processing is doing in the following code. /\*6 points\*/

void setup() {

float yourWeight = 132; \_\_\_[1]\_\_\_

float marsWeight = calculateMars(yourWeight); \_\_\_[2]\_\_\_

println(marsWeight); \_\_\_[3]\_\_\_

}

float calculateMars(float w) { \_\_\_[4]\_\_\_

float newWeight = w \* 0.38; \_\_\_[5]\_\_\_

return newWeight; \_\_\_[6]\_\_\_

}

CSC 108 Quiz # 6 Page 2

***Short Answer (continued):***

2. Explain, on each numbered line, what Processing is doing in the following code. /\*6 points\*/

void setup() {

size(480, 120);

fill(255); \_\_\_[1]\_\_\_

drawSquare(0, 0, 120); \_\_\_[2]\_\_\_

drawSquare(420, 60, 60); \_\_\_[3]\_\_\_

}

void drawSquare(int x, int y, int size) { \_\_\_[4]\_\_\_

stroke(0); \_\_\_[5]\_\_\_

rect(x, y, size, size); \_\_\_[6]\_\_\_

}

3. Write a Processing program (sized 480x120) that uses the drawSquare function above to draw two **blue** squares with the following specifications: /\*9 points\*/

* The first square should start at (60, 40) and have a width and height of 30.
* The second square should start at (120, 160) and have a width and height of 50.