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`
B) `rollDice`
C) `numSides`
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
B) rollDice
C) numSides
D) d
E) None of these

***Short Answer:***

1. Explain, on each numbered line, what Processing is doing in the following code. /*7 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]___
}
```

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

2. Explain, on each numbered line, what Processing is doing in the following code. /*9 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 400x600) that uses the drawSquare function above to draw two **blue** squares with the following specifications: /*5 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.