CPSC 110 RAT Chapter 11

Name: _____

1. What is a function in programming?

    a. A piece of code that has a specific job that we can call upon to do that job
    b. A variable that can store any type of data
    c. A list which stores other lists inside of itself
    d. The output that the user expects to receive

2. Which of the following is **not** a benefit of writing functions?

    a. They allow programs to be divided into organized sections
    b. They let us avoid writing the same code over and over
    c. They let split a program into parts and tackle them one by one
    d. They make programs run more quickly

3. What keyword does Python use to create a new function?

    a. `func`
    b. `void`
    c. `create`
    d. `def`

4. What is the term for information given **to** a function?

    a. Message
    b. Declaration
    c. Parameter
    d. Return value

5. What is the term for information given **back** from a function?

    a. Message
    b. Declaration
    c. Parameter
    d. Return value

6. What does the word **scope** refer to?

    a. The part of a program where we can use a variable
    b. How much time it takes to run the program
    c. The amount of functions used in a program
    d. How complex a program is

7. What is wrong with the following program?

```
def area(length, width):
    a = length * width
    return a
print("The area is", area())
```

a. The function is not actually called
b. The parameters are not passed to the function
c. The return value is not used
d. The function is not defined before it's used

8. What does the following program output?

```
def stuff(a, b):
    return 2 * b + a
x = stuff(3, 2)
print(x)
```

a. 5
b. 8
c. 3
d. 7

9. What does the following program output?

```
def f1(a):
    return a * a
def f2(b):
    return b + 2
x = f2(f1(3))
y = f1(f2(3))
print(x, y)
```

a. 9 5
b. 11 25
c. 19 15
d. 7 5

10. What does the thingy function return if we pass it the value 3?

```
def thingy(x):
    num = 1
    for i in range(x):
        num = num * 2
    return num
```

a. 6
b. 9
c. 8
d. Nothing, there is an error