league logo.jpg**Level 0 Exam**

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Written: /70

Coding #1: /30

GitHub username: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Coding #2: /30

1. What **type** of variable would you use to hold these things? (5)

You should use each of these once: int, String, boolean, char, double.

1. Your favorite movie \_\_\_\_\_\_\_\_\_\_\_

2. The number of people in the classroom \_\_\_\_\_\_\_\_\_\_\_

3. The first letter of your name \_\_\_\_\_\_\_\_\_\_\_

4. The price of a movie ticket \_\_\_\_\_\_\_\_\_\_\_

5. Whether your cat has been fed today \_\_\_\_\_\_\_\_\_\_\_

2. Fill in the code that will print “just right!” if x is less than or equal to 10 **and** y is greater than 15. (4)

int x = 7;

int y = 26;

if( )

{

System.out.println("just right!");

}

3. Add curly braces (mustaches) where they are missing. (3)

public class MyClass

public static void main(String[] args)

String catName = “fluffy”;

if(catName.equals(“Mr. Jingles”))

String message = "Get off the couch Mr. Jingles!";

System.out.println(message);

4. Create a variable that holds your name, then use it to print “My name is <your name> and I like coding” (3)

5. Using modulo, fill in the code that will print “even!” if x is an even number. (5)

int x = 16;

if( )

{

System.out.println("even!");

}

6. How would you get a random integer (int) between 50 and 100? (5)

7. Finish the code so that it prints “Tacos for dinner.” if today is Tuesday and “Pizza for dinner.” if today is Wednesday. (4)

String today = JOptionPane.showInputDialog(“what day is it?”);

if(\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_)

{

System.out.println("Tacos for dinner.");

}

else if (\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_)

{

System.out.println("Pizza for dinner.");

}

else

{

System.out.println("Eat your vegetables!");

}

8. Write the code that completes the following steps:

1. Ask the user for their age (3)
2. Add one to their age (this should take two lines of code) (5)
3. Use a pop-up to tell the user “Happy Birthday! You are now \_\_\_\_ years old” where the blank contains their new age. (4)

9. Given the following Processing code: (4)

int y = 200;

void draw(){

fill(255, 0, 0);

ellipse(200, y, 50, 50);

y+=5;

}

What is:

The x position of the ellipse: \_\_\_\_\_\_\_\_\_\_\_\_

The width of the ellipse: \_\_\_\_\_\_\_\_\_\_\_\_

The color of the ellipse: \_\_\_\_\_\_\_\_\_\_\_\_

The direction that the ellipse is moving: \_\_\_\_\_\_\_\_\_\_\_\_

(up, down, left, or right)

10. Fix the four mistakes in the following code: (4)

int x;

int y = x + 1;

if(x = y)

{

x + 1;

} else if {

x = y;

}

11. Fill in the following loop so that it counts **down** from 10 to 0. (4)

for( \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ; \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ; \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ){

System.out.println( \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ )

}

12. From the main method, call the echo method so that “echo” is printed 5 times. (3)

public static void main (String[] args){

}

static void echo(String repeat, int numTimes){

for(int i = 0; i < numTimes; i++)

{

System.out.print(repeat);

}

}

13. Write code that will print the **even** numbers between 100 and 500 **using**

**modulo**. (6)

14. What is the output of this code? (3)

int x = 44;

if (x > 40) {

System.out.println("dogs");

}

else if (x > 42) {

System.out.println("cats");

}

if (x == 40) {

System.out.println("hamsters");

} else {

System.out.println("pigeons");

}

System.out.println("spiders");

15. Write a method called doubleNumber. It should take an int as a parameter and print out that number multiplied by 2. (5)