

## Question 1

1 / 1 pts

Where should a method be defined?

☐ Where ever it is necessary to have the method

☒ In a class for which the method makes sense.



☐ Within the main method

## Question 2

1 / 1 pts

Which answer is a correct and easy way to make a turtle turn to the right? (lets assume we have created an object of the turtle class called turtle1).

☐ turtle1.turn(270);

☒ turtle1.turnRight();

☐ turnRight();

☐ turtle1.turnRight(90);

## Question 1

1 / 1 pts

What does the variable boo hold after the following lines of code are executed?

```
boolean boo;  
  
boo = true;  
  
boolean boo2 = false;  
  
boo = boo == boo2;
```

☐ true

☐ boo2

☒ false

☐ booboo2

## Question 2

1 / 1 pts

What is the following line of code considered?

```
int num;
```

- ☐ variable declaration and initialization
- ☐ neither variable declaration nor initialization
- ☐ variable initialization
- ☒ variable declaration

## Question 3

1 / 1 pts

Which print statement prints the following:

It is the year 2009!

- ☐ System.out.println("It is the year " + 2000 + 9 + "!");
- ☒ System.out.println("It is the year " + (2000 + 9) + "!");
- ☐ System.out.println("It is the year " 2009 !);
- ☐ System.out.println("It is the year" + 2009 + " !");

## Question 4

1 / 1 pts

What would the following code print?

```
String name = "Bob";  
  
String name2 = "Sally";  
  
System.out.println(name == name2);  
  
name = name2;  
  
System.out.println(name);
```

☐ false  
Bob

☐ Sally  
Sally

☒ false  
Sally

☐ false  
Bob

☐ true  
Sally

## Question 5

1 / 1 pts

What is stored in the variable num after the following line of code is executed?

```
int num = 100;
```

☐ The address in memory where 100 is stored

☒ 100

☐ new int(100)

☐ "100"

## Question 1

1 / 1 pts

Why does the method

```
drawSquare()
```

use the command:

```
this.forward(30);
```

rather than

```
turtle1.forward(30);
```

or (like we did in class)

```
jose.forward(30);
```

- 
- ☐ I don't know, this seems wrong.
- 
- ☐ "this" refers to any object in Java, so it's the right thing to use
- 
- ☐ turtle1 is a bad Java variable name, that's why they used this
- 

- ☒ "this" is the term used to refer to the reference object passed implicitly when a method is called



## Question 2

1 / 1 pts

Which is a correct way to get the name of a class?

☐ `System.out.println(world1.Class());`

☐ `System.out.println(world1.getTheClassName());`

☒ `System.out.println(world1.getClass());`

## Question 3

1 / 1 pts

The best description of an argument is

☐ The stuff that comes in the () after the method name

☐ The name that appears after the dot and before the ()

☐ A single value that is "passed" to a method to give the method information it needs to do its job

☒ One or more values that are "passed" to a method to give the methods information it needs to do its job

☐ The reference object that appears before the dot when a method is called

## Question 4

0 / 1 pts

What is stored in memory for an object? (pick all that are true):

☒ null

☒ a reference (or address in memory) to where the object information is stored

☐

null, when the object has been declared, but not yet assigned to refer to a specific value

☒ the object data itself (e.g. a String or Turtle)

## Question 1

1 / 1 pts

```
public class FirstTurtleDemo {  
    public static void main(String[] args) {  
        World world1 = new World(200,300);  
        B Turtle maria = new Turtle(100, 50, world1);  
        maria.forward(25);  
        C maria.forward(-50);  
        D maria.turnRight;  
        E maria.backward(50);  
    }  
}
```

On which line is the compile error?

A. There is no error

☐ A

☐ B

☐ C

☐ E

☒ D

## Question 2

1 / 1 pts

```
int x = 3;  
int y = x;  
System.out.println(y == 3);  
x = 4;  
System.out.println(y == 3);
```

What is the output of this code?

false

☐ true

true

☐ false

true

☒ true

false

☐ false

## Question 1

1 / 1 pts

What is the value stored in `second` after the code is executed?

```
int anInteger = 5;
```

```
int second;
```

```
second = 10;
```

```
anInteger = second;
```

```
second = second + 4;
```

☐ error

☐ 9

☐ 4

☐ 10

☒ 14

## Question 2

1 / 1 pts

Where in the World does the Turtle object maria references to after execution?

```
Turtle maria = new Turtle(25, 25, world1);  
Turtle jose = new Turtle(100, 50, world1);  
maria = jose;  
jose = new Turtle(50, 150, world1);  
jose.forward(25);
```

☐ somewhere else

☐ 100,25

☐ 50,125

☒ 100,50

☐ 25,25

ect!

### Question 3

1 / 1 pts

Which class includes the code that runs when you call forward method on jose?

```
Turtle jose = new Turtle(100,50, world);
```

```
jose.forward(100);
```

☒ Turtle

☐ TurtleMovement

☐ jose



## Question 1

1 / 1 pts

In the method header below, which keyword is the **return type**?

**public void drawRectangle(int h, int w)**

☒ void

☐ draw

void. You selected this answer. This was the correct answer.

☐ public

☐ int

☐ int h, int w

## Question 2

1 / 1 pts

What does the code snippet below do?

```
World world1 = new World(200,100);
Turtle maria = new Turtle(75, 75, world1);

int distLimit = 15;
int totalDist = 0;
int value = 10;
while (totalDist < distLimit)
{
    maria.forward(value);
    totalDist = totalDist + value;
    value = value+2;
}
```

ect!

- ☒ Creates 1 turtle and moves it forward 22 units
- ☐ Creates 1 turtle and moves it forward 12 units
- ☐ Creates 1 turtle and moves it forward 20 units
- ☐ Creates 1 turtle and moves it forward 36 units

### Question 3

1 / 1 pts

If I wanted a random integer between 0 and 10 (**including 10**), which line of code would I write below in the space marked "??"?

```
Random generator = new Random();
```

```
int value1 = ??
```

```
System.out.println(value1);
```

(Hint: this question is slightly modified from the one in the podcast! Be careful with the range.)

☐ generator.nextInt(10);

☒ generator.nextInt(11);

☐ generator.nextDouble(11);

☐ generator.nextDouble(10);

Correct!