Which of the following is NOT a valid method to increase a variable named score by 1?

```
++score
score++
++score = score + 1
score = score + 1
```

## **Question 6**

```
How many times will outputLabel be called?
```

```
for(customer = 1; customer <= 20; ++customer)
    for(color = 1; color <= 3; ++color)
        outputLabel();</pre>
```

**×** 0

×

3

20

**⇒** 60

#### **Question 8**

A(n) \_\_\_\_ comparison is based on the integer Unicode values of the characters. integer symbol

- lexicographical
- **X** Character

## **Question 11**

The creators of Java chose \_\_\_\_ characters as the "extra" length for a StringBuilder object

12

**⇒** 16

36

**×** 48

Besides Double and Integer, other wrapper classes such as Float and Long also provide methods that convert Strings to the wrapper types.

valueOf()
toWrapper()

parseString()
parseDouble()

#### **Question 14**

A StringBuilder object contains a memory block called a \_\_\_\_\_, which might or might not contain a string.

capacity

⇒ buffer

reference Thread

#### **Question 15**

To alter just one character in a StringBuilder, you can use the \_\_\_\_ method, which allows you to change a character at a specified position within a StringBuilder object.

charAt()

insert()
append()

⇒ setCharAt()

## **Question 16**

The methods of the Character class that begin with \_\_\_\_ return a character that has been converted to the stated format.

💢 is

to for In

## **Question 17**

The \_\_\_\_ method returns the length of a String.

⇒ length()

In Java, boolean array elements automatically are assigned the value \_\_\_\_\_.

```
null '\u0000'
```

💥 true

➡ False

#### **Question 21**

In which of the following statements is the value of myVals null?

```
int myVals = ""
int [] myVals;
```

myVals = int[null]
int[null] = myVals

#### **Question 23**

Providing values for all the elements in an array is called \_\_\_\_ the array.

populating declaring

filling
Irrigating

## **Question 25**

Which of the following println statements will display the last myScores element in an array of 10?

```
System.out.println(vals[0]);
System.out.println(vals[1]);
System.out.println(vals[9]);
System.out.println(vals[10]);
```

## **Question 26**

When any primitive type variable is passed to a method, the \_\_\_\_\_ is passed.

⇒ value

**x** reference

location

memory

A(n) \_\_\_\_ loop allows you to cycle through an array without specifying the starting and ending points for the loop control variable.

★ do...while

inner

enhanced for enhanced while

#### **Question 28**

When you declare or access an array, you can use any expression to represent the size, as long as the expression is \_\_\_\_\_.

a variable

- **x** enclosed in brackets
- an integer a list

#### **Question 29**

Which of the following describes a data type for which only appropriate behaviors are allowed?

value-neutral

- type-safe
- enumerated value data-cast

## **Question 32**

With a two-dimensional array, the \_\_\_\_ field holds the number of rows in the array.

size

capacity
row

<u>→</u> Length

## **Question 34**

Regarding enumerations, the \_\_\_\_ method returns an integer that represents the constant's position in the list of constants; as with arrays, the first position is 0.

→ ordinal

The Arrays class \_\_\_\_ method puts a particular value in each element of the array.

## ×

binarySearch



fill

equals

search

## **Question 41**

If a \_\_\_\_ method has the same name as a parent class method and you use the name with a child class object, the child method hides the original.

final



static



protected

Private

## **Question 42**

When you employ \_\_\_\_\_, your data can be altered only by the methods you choose and only in ways that you can control.

virtual method calls



polymorphism



information hiding

Inlining

## **Question 43**

You are never aware that \_\_\_\_ is taking place; the compiler chooses to use this procedure to save the overhead of calling a method.

information hiding

polymorphism



overriding



Inlining

## **Question 45**

You can use the \_\_\_\_ modifier with methods when you don't want the method to be overridden.



final

By convention, a class diagram contains the \_\_\_\_\_ following each attribute or method.

data field argument

data type

**X** Class

# **Question 48**

When you create a class and do not provide a(n) \_\_\_\_\_, Java automatically supplies you with a default one.

constructor argument

header Name

## **Question 49**

Which of the following statements depicts the valid format to call a superclass constructor from a subclass constructor?

```
superclass(name, score);
subclass(name, score);

extends(name, score);
super(name, score);
```

```
import javax.swing.JOptionPane;
public class Practice
{
    public static void main(String[] args)
    {
       String fullName;
       char firstLetter;
    }
}
```

Accepting a String from a user is common practice. Using the above code, write the statements to accept a String response from a user. Prompt the user with "Enter your name". Then use the charAt() method to extract the first character of the String. Explain your answer.

## **Question 53**

```
public class CostArray
{
    public static void main(String[] args)
    {
        double[] costs = new double[3];
        costs[0] = 5.00;
        costs[1] = 7.00;
        costs[2] = 9.00;
        System.out.println(costs[3]);
    }
}
```

Once the above code is compiled and executed, an error message is generated. Explain the error message that will result and explain the reason for the error. Write code to fix the error.

```
public class CostArray
{
public static void main (String[]args)
{
double costArray[] = { "5.00", "7.00", "9.00"};
System.out.println( costArray[]);
}
}
```

```
import java.util.*;
import javax.swing.*;
public class binary_search
{
    public static void main(String[] args)
    {
        int myNums[]={2, 44, 5, 66, 78, 90, 23,
66};
        int point, find = 78;
        point = Arrays.binarySearch(myNums, find);
        System.out.println("Element found at index
" + point);
    } Using the above code, what output will be displayed when the program is executed? Describe how the binarySearch() method functions.
```

this method will basically make a search for a specific value assign to an array. based on the number assign to the variable point = 78, 78 is the number that the code will look for into the array. since it binary the starting point will be 0,1 type sort. in this case the value as already been assign so it st