

## Test: Section 4 Quiz 2 - L3-L5

Review your answers, feedback, and question scores below. An asterisk (\*) indicates a correct answer.

### Section 4 - Quiz 2 L3-L5

(Answer all questions in this section)

1. You need to generate random integer values in the range 2 through 10. This code fragment will produce the desired result. ☐

Mark for Review  
(1) Points

```
Random r = new Random();  
r.nextInt(9) + 2;
```

- ☒ True (\*)  
☐ False

☒ Correct

2. Using the Random class requires an import statement. ☐

Mark for Review  
(1) Points

- ☐ True (\*)  
☒ False

☒ Incorrect. Refer to Section 4 Lesson 4.

3. Which class is used to generate random numbers? ☐

Mark for Review  
(1) Points

- ☒ Random (\*)  
☐ Double  
☐ Number  
☐ Integer

☒ Correct

4. Which values are returned by the method nextBoolean(); ☐

Mark for Review  
(1) Points

- ☒ Either a true or false. (\*)  
☐ Returns the next value.  
☐ An integer value.  
☐ Nothing is returned.

☒ Correct

5. What is the output? ☐

Mark for Review  
(1) Points

```
public static void main(String args[]) {  
    String greeting = "Java World!";  
    String w = greeting.replace("a", "A");  
    System.out.println(w);  
}
```

- ☒ JAvA World! (\*)  
☐ Java World!  
☐ JavA World!

☐ Java World!

☒ Correct

Page 1 of 3 [Next](#) [Summary](#)

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(Answer all questions in this section)

6. The String class must be imported using java.lang.String;



Mark for Review  
(1) Points

- ☒ True  
☐ False (\*)

☒ Incorrect. Refer to Section 4 Lesson 3.

7. String objects are immutable.



Mark for Review  
(1) Points

- ☐ True (\*)  
☒ False

☒ Incorrect. Refer to Section 4 Lesson 3.

8. The String concat() method concatenates only String data types.



Mark for Review  
(1) Points

- ☒ True (\*)  
☐ False

☒ Correct

9. The indexOf() method returns the index value of a character in the string.



Mark for Review  
(1) Points

- ☒ True (\*)  
☐ False

☒ Correct

10. A String is a sequence characters.



Mark for Review  
(1) Points

- ☐ True (\*)  
☒ False

☒ Incorrect. Refer to Section 4 Lesson 3.

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#### Section 4 - Quiz 2 L3-L5

(Answer all questions in this section)

11. What is the output of the following code?



Mark for Review  
(1) Points

```
public static void main(String args[]) {  
    String firstString = "Java";  
    firstString = firstString.concat("World");  
    System.out.println(firstString);  
}
```

- ☒ Java
- ☐ Java World
- ☐ World
- ☐ JavaWorld (\*)

 Incorrect. Refer to Section 4 Lesson 3.

12. All the methods in the Math class are static methods.



Mark for Review  
(1) Points

- ☒ True (\*)
- ☐ False

 Correct

13. The Math class methods can be called without creating an instance of a Math object.



Mark for Review  
(1) Points

- ☐ True (\*)
- ☒ False

 Incorrect. Refer to Section 4 Lesson 5.

14. Which two are the features of the Math class?



Mark for Review  
(1) Points

(Choose all correct answers)

- ☒ Math methods can be invoked with Strings as arguments.
- ☒ Common math functions like square root are taken care of in the language. (\*)
- ☐ The Math methods can be invoked without creating an instance of a Math object. (\*)
- ☐ You don't have to worry about the data type returned from a Math method.

 Incorrect. Refer to Section 4 Lesson 5.

15. What is the approximate value of PI?



Mark for Review

(1) Points

- ☒ 3.141 (\*)
- ☐ The value varies.
- ☐ 0
- ☐ 2.718

☒ Correct

[Previous](#) [Page 3 of 3](#) [Summary](#)