

## Java Week 4

Total Questions: 15

Most Correct Answers: #9

Least Correct Answers: #15

1. When submitting Project 2 for grading, which directory should you zip(compress)?

3/17 ☐ A project2

0/17 ☐ B java111

0/17 ☐ C src

12/17 ☒ D projects

0/17 ☐ E none of the above

2. This is the proper way to define and assign a double:  
`double myDouble = 5.9f;`

4/17 ☐ A True

11/17 ☒ B False

3. This is the proper way to define and assign a char:  
`char myChar = "y";`

11/17 ☐ A True

4/17 ☒ B False

4. A program written in Java is run on a standardized hypothetical computer called \_\_\_\_\_.

0/17 ☐ A a transformer

0/17 ☐ B object referencer

2/17 ☐ C a compiler

13/17 ☒ D the java virtual machine

5. In this code snippet, what part is the object reference?

```
SuperHero speedy = new SuperHero();
```

2/17 ☐ A SuperHero

9/17 ☒ B speedy

1/17 ☐ C new SuperHero()

3/17 ☐ D SuperHero()

6. What are the two main types of variables in Java?

1/17 ☐ A int and String

0/17 ☐ B Strings and primitives

0/17 ☐ C doubles and floats

13/17 ☒ D primitives and object references

1/17 ☐ E Primitives and complex variables

7. A class lives in the garbage collection heap.

4/17 ☐ A True

11/17 ☒ B False

8. When does garbage collection happen?

3/17 ☐ A When gc.CollectGarbage() is called.

2/17 ☐ B Every 5 ms.

0/17 ☐ C Every day at 12:01 a.m.

10/17 ☒ D We don't know and we don't care.

9. Which of the following will compile?

0/17 ☐ A int double = 1;

0/17 ☐ B int myInt = 34.5;

14/17 ☒ C int myInt = 15;

1/17 ☐ D int void = 0;

10. Which of the following is not a primitive type?

0/17 ☐ A int

4/17 ☐ B byte

1/17 ☐ C float

10/17 ☒ D String

11. Assume the code snippet below is within a valid class and main method. Choose the answer that describes the proper output:

```
Book a = new Book();  
Book b = new Book();  
a.title = "Blue";  
b.title = "Red";  
b = null;  
System.out.println(b.title);
```

0/17 ☐ A Blue

1/17 ☐ B Red

0/17 ☐ C a.title

0/17 ☐ D b.title

14/17 ☒ E Null Pointer Exception

12. Assume the code snippet below is within a valid class and main method. Choose the answer that describes the proper output:

```
Book a = new Book();  
Book b = new Book();  
a.title = "Blue";  
b.title = "Red";  
b = null;  
System.out.println(a.title);
```

1/17 ☐ A Null Pointer Exception

13/17 ☒ B Blue

1/17 ☐ C Red

0/17 ☐ D title

0/17 ☐ E a.title

13. Assume the code snippet below is within a valid class and main method. Choose the answer that describes the proper output:

```
Book a = new Book();  
Book b = new Book();  
a.title = "Blue";  
b.title = "Red";  
b = a;  
System.out.println(b.title);
```

1/17 ☐ A Null Pointer Exception

13/17 ☒ B Blue

1/17 ☐ C Red

0/17 ☐ D a.title

0/17 ☐ E b.title

14. Assume the code snippet below is within a valid class and main method. Choose the answer that describes the proper output:

```
Book a = new Book();  
Book b = new Book();  
a.title = "Blue";  
b.title = "Red";  
b = a;  
a = null;  
System.out.println(b.title);
```

7/17 ☐ A Null Pointer Exception

6/17 ☒ B Blue

2/17 ☐ C Red

0/17 ☐ D a.title

0/17 ☐ E null

15. Assume the code snippet below is within a valid class and main method. Choose the answer that describes the proper output:

```
Book a = new Book();  
Book b = new Book();  
a.title = "Blue";  
b.title = "Red";  
b = a;  
b.title = "Green";  
System.out.println(a.title);
```

0/17 ☐ A Null Pointer Exception

13/17 ☐ B Blue

0/17 ☐ C float

2/17 ☒ D Green