



Java Quiz: Chapter 7

Guidelines: Answer the questions below by ticking the box next to the correct response(s) to each question. Be sure to check your answers to ensure that they are correct.

1. What is the relationship between a class and an object?

Choose one answer.

- ☐ A. An object is a blueprint that can be used to create many classes
- ☒ B. **A class is a blueprint that can be used to create many objects**
- ☐ C. A class is a method type found inside of an object
- ☐ D. Objects and classes are both control structures

2. A programmer requires a new object. In Java, what is the syntax to achieve this?

Choose one answer.

- ☐ A. `MyClass = new obj();`
- ☐ B. `MyClass obj = MyClass();`
- ☐ C. `MyClass obj = new MyClass;`
- ☒ D. `MyClass obj = new MyClass();`

3. In Java, the 'main' method is static. What does static mean?

Choose one answer.

- ☒ A. **Static means that the method belongs to the class and not to an instantiated object**
- ☐ B. Static means that the method belongs to an instantiated object and not the class
- ☐ C. Static means that the method returns a value
- ☐ D. Static means that the method does not return a value

4. In Java, a variable can be set to constant, meaning that its value cannot be changed. What is the keyword to achieve this?

Choose one answer.

- ☐ A. `constant`
- ☐ B. `const`
- ☒ C. `final`
- ☐ D. `absolute`

5. What would be the output of this statement?

```
public class MyProg{
    public static void main(String[] args){
        MyProg x = new MyProg();
        MyProg y = new MyProg();
        x.bill();
    }
    public void bill(){
        System.out.println("I am Bill");
    }
    public void ben(){
        System.out.println("I am Ben");
    }
}
```

Choose one answer.

- ☒ A. **I am Bill**
- ☐ B. I am Bill
I am Ben
- ☐ C. I am Ben
- ☐ D. I am Ben
I am Bill

6. What would be the output of this statement?

```
public class MyProg{
    int x = 5;
    int y = 2;
    public static void main(String[] args){
        MyProg z = new MyProg();
        z.ben();
        System.out.println(x);
    }
    public void bill(){
        x = 7;
    }
    public void ben(){
        x = x + y + y;
        System.out.println(x);
    }
}
```

Choose one answer.

- ☐ A. 9
- ☐ B. 7
7
- ☒ C. **9**
9
- ☐ D. 11

7. What would be the output of this statement?

```
public class MyMaths{
    public static void main(String[] args){
        MyMaths x = new MyMaths();
        x.myAddition(55,55,10);
    }
    public void myAddition(int num1, int num2, int num3){
        System.out.println(num1 + num2 + num3);
    }
}
```

Choose one answer.

- ☐ A. 65
- ☐ B. 555510
- ☒ C. **120**
- ☐ D. 0

8. What would be the output of this statement?

```
public class MyNameApp{
    public static void main(String[] args){
        MyNameApp nameObject = new MyNameApp();
        String fName = "Steven";
        String lName = "Smith";
        String mName = "Charles";
        String name = nameObject.myName(fName, lName);
        System.out.println(name);
    }
    public String myName(String firstName, String surname){
        String fullName = firstName + " - " + surname;
        return fullName;
    }
}
```

Choose one answer.

- ☒ A. **Steven - Smith**
- ☐ B. Steven - Charles - Smith
- ☐ C. Steven - Charles
- ☐ D. Steven Smith

9. Variables and methods can be set to public or private. What does that mean?

Choose one answer.

- ☐ A. Private methods/variables are from the Java API (library) and public methods/variables are not
- ☐ B. Public methods/variables are from the Java API (library) and private methods/variables are not
- ☐ C. Private methods/variables are accessible to all classes and public methods/variables are not
- ☒ D. **Public methods/variables are accessible to all classes and private methods/variables are not**

10. What would be the output of this statement?

```
public class MyApp{
    public static void main(String[] args){
        MyApp obj = new MyApp();
        obj.methodA();
        obj.methodB();
        System.out.println(x);
    }
    public void methodA(){
        int x;
        x = 5;
    }
    public void methodB(){
        x = x + 5;
    }
}
```

Choose one answer.

- ☒ **A. Error – will not compile**
- ☐ B. 10
- ☐ C. 5
- ☐ D. 15

11. What would be the output of this statement?

```
DecimalFormat myF = new DecimalFormat("#,###.##");
String output = myF.format(128000.56);
System.out.println(output);
```

Choose one answer.

- ☐ A. 12,8000.56
- ☒ **B. 128,000.56**
- ☐ C. 128000.56
- ☐ D. 12800056

12. In Java, what does the 'void' mean?

Choose one answer.

- ☐ A. That the method (function) can be found, but cannot be used
- ☐ B. That the method (function) cannot be found
- ☒ **C. That the method (function) does not return a value**
- ☐ D. That the method (function) returns a value