

Assessment

LATEST SUBMISSION GRADE

100%

1. What does **Car** represent in the following code?

1 / 1 point

Car myCar;

- ☐ The class of myCar.
- ☒ The type of myCar.

✓ **Correct**
Yes.

2. In the following code, **SportsCar** represents _____.

1 / 1 point

Car myCar = new **SportsCar**(...);

- ☐ The type of myCar.
- ☒ The class of myCar
- ☐ The initial class of myCar

✓ **Correct**
Yes.

3. True or false: Individual objects start with the same methods as defined by their class, but after that, individual objects can have new or modified methods given to them.

1 / 1 point

- ☐ True.
- ☒ False

✓ **Correct**
Correct. Java classes receive their methods from their class.

4. To create a new object of class C, we would do:

1 / 1 point

- ☒ C c = new C();
- ☐ C c = Object.makeObject(C);
- ☐ C c = Object.create(C.class)
- ☐ C c = C();

✓ **Correct**
Correct

5. What is returned from the following code?

1 / 1 point

```
public Car myfunc() {  
  
    Car c;  
  
    return c;  
  
}
```

- ☒ Nothing. The Java compiler flags this code as invalid.
- ☐ A null value.
- ☐ A default Car. But it is on the stack, leading to runtime corruption later.
- ☐ Nothing. The method causes a runtime error because there is no Car to return.

✓ **Correct**

Correct. Stack variables such as c are not implicitly initialized, and so c is undefined when we attempt to return it, and the compiler refuses to compile the code.

6. Creating an object is a two-step process. What is the first step?

1 / 1 point

- ☐ Associates the reference with an object.
- ☐ Identifies constructors and types.
- ☒ Creates a reference for an object but doesn't assign it to an instance.

✓ **Correct**

Right.

7. True or False: Java uses a reference table within the JRE to keep track of objects it has constructed.

1 / 1 point

- ☒ True
- ☐ False

✓ **Correct**

Yes.

8. Any attribute with an accessibility set to _____ will not be accessible using Java's "dot" (.) notation outside of that class.

1 / 1 point

- ☐ default
- ☐ public
- ☒ private

✓ **Correct**

Yes, this makes it accessible only to the class in which it is defined.

9. To work with an object, you must first _____ the object, then manipulate the object via its methods.

1 / 1 point

- ☐ define
- ☒ instantiate
- ☐ store

✓ **Correct**

Right.

10. True or False: All objects of the same data type share the methods in memory as well as data.

1 / 1 point

- ☐ True
- ☒ False

✓ **Correct**

Right!