

## ✓ Congratulations! You passed!

Go to next item

Grade received **100%** To pass 80% or higher

### Review Assessment

Latest Submission Grade **100%**

1. Down-casting \_\_\_\_\_.

1 / 1 point

- ☒ Converts an object reference from a super-type to a sub-type.
- ☐ Is always safe.
- ☐ Converts the object to a new type.
- ☐ Converts an object reference from a sub-class to a reference to a super-class.

✓ **Correct**

Correct. Down-casting converts an object reference from a super-type to a sub-type.

2. An Abstract Class can be \_\_\_\_\_. (Select all that apply)

1 / 1 point

- ☒ incapable of being instantiated.

✓ **Correct**

True, but there's still more.

- ☐ instantiated.
- ☒ a partially implemented class.

✓ **Correct**

True, but there's still more.

- ☐ used as leaf classes in the inheritance tree.

3. True or false: Unlike regular classes, abstract classes support multiple inheritances.

1 / 1 point

- ☐ True
- ☒ False

✓ **Correct**

Correct

4. True or false: You must use @Override to override an inherited method.

1 / 1 point

- ☐ True
- ☒ False

✓ **Correct**

Correct. It is just a hint to the compiler.

5. True or false: Because they cannot be instantiated, abstract classes cannot be used as the type of a parameter.

1 / 1 point

- ☐ True
- ☒ False

✓ **Correct**

Correct

6. Abstract can contain \_\_\_\_\_. (Select all that apply)

1 / 1 point

☒ Abstract methods

✓ **Correct**  
Yes.

☒ Implemented methods

✓ **Correct**  
Yes.

☐ Abstract attributes

☒ Abstract properties

✓ **Correct**  
Right, but that just means abstract methods.

7. Using the keyword **new** with an Abstract Class will result in a \_\_\_\_\_.

1 / 1 point

☒ Compile time error.

☐ Runtime error

✓ **Correct**  
Correct

8. True or False: An abstract class must have one or more abstract methods.

1 / 1 point

☒ False

☐ True

✓ **Correct**  
Correct

9. In order to use an Abstract Class, you \_\_\_\_\_.

1 / 1 point

☒ Create a subclass of it that implements all abstract methods.

☐ Extend it as an Interface

☐ Instantiate it

✓ **Correct**  
Correct.

10. Abstract Classes are best used to \_\_\_\_\_.

1 / 1 point

☐ Provide complete implementations of objects that you don't want other classes to instantiate, but want to instantiate, yourself.

☐ Define interfaces to be used in disjoint parts of frameworks

☒ Provide reusable code, with attributes to support the code.

✓ **Correct**  
Correct