Quiz 05

Due Sep 30 at 12pm   **Points** 10   **Questions** 10   **Time Limit** None

Instructions

There is no time limit, but you may only make one submission.

Attempt History

	Attempt	**Time**	**Score**
LATEST	**Attempt 1**	25 minutes	10 out of 10

Score for this quiz: **10** out of 10
Submitted Sep 21 at 2:16pm
This attempt took 25 minutes.

Question 1	**1 / 1 pts**

Which class does not require an import statement at the beginning of the program that uses it?

○ `java.util.GregorianCalendar`

○ `java.awt.Color`

Correct!   ◉ `java.lang.Double`

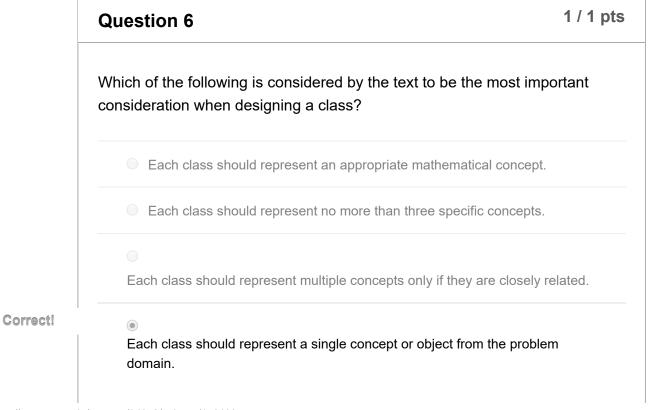○ `java.math.BigDecimal`

Question 2	**1 / 1 pts**

A class named `CurrencyTranslator` would most probably fall into which of the following class categories?

◯ Abstract entities

◯ Utility classes

Correct!   ⦿ Actor classes

◯ Starter classes

Question 3   1 / 1 pts

Which of the following is NOT a good reason to place classes into a package?

◯ to show authorship of source code for classes

◯ to avoid name clashes

Correct!   ⦿ to make it easier to include a set of frequently used but unrelated classes

◯ to organize related classes

Question 4   1 / 1 pts

In order to solve complex tasks, you should apply an important skill:

Correct!   ⦿ simplify the problem, and solve the simpler problem first.

◯ involve users in the process from the very beginning.

◯ learn to direct others with clear, simple instructions.

◯ organize classes based on performance and need.

Question 5   1 / 1 pts

Which of the following is true regarding side effects of methods?

○ Modification of private instance variables is only considered as a side effect with primitive instance variables

○ Modification of parameter varibles as a side effect is not allowed by the compiler

Correct!

◉ Side effects that go beyond modification of private instance variables should generally be avoided

○ Side effects involving standard output should be limited to String objects only

Question 6   1 / 1 pts

Which of the following is considered by the text to be the most important consideration when designing a class?

○ Each class should represent an appropriate mathematical concept.

○ Each class should represent no more than three specific concepts.

○ Each class should represent multiple concepts only if they are closely related.

Correct!

◉ Each class should represent a single concept or object from the problem domain.

Question 7

1 / 1 pts

In which of the following cases might a static variable be declared as something other than private?

Correct!

○ Never; static variables must always be declared as private

◉ When implementing static constants

○ When it will be modified by objects of other classes

○ When declared inside a private method

Question 8

1 / 1 pts

Under which of the following conditions would the public interface of a class be considered cohesive?

○ All of its features are public and none of its features are static.

○ It is obvious that the public interface refers to multiple concepts.

Correct!

◉ All of its features are related to the concept that the class represents.

○ The quality of the public interface is rated as moderate to high.

Question 9

1 / 1 pts

Suppose we want to model several different physical bookshelves full of books. Which of the following would represent the best structure in Java?

○

a Shelf class, where each object represents the bookshelf and all of its books

Correct!

◉

a Book class, where each book is an object, and a Shelf class, where each bookshelf is an object

○

a Book class, where each book is an object, and a HashSet of Book objects, where each Set represents a bookshelf

○

a Book class, where each object represents a book along with the details of the shelf it is in

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Question 10   1 / 1 pts

A theater needs a `TicketCounter` to keep track of the number of tickets sold. There are two types of ticket: regular and discount. Which technique would be the best approach to printing the number of tickets sold?

○

Make the instance variables public so programs can access the values and print them.

○

Create a `getValues(int regular, int discount)` method that will return the number of discount and regular priced tickets sold.

○

Create a `print()` method that will print out the number of discount and regular priced tickets sold.

Correct!

◉

Create a `toString()` method in the class that creates a representation with the number of discount and regular priced tickets sold.

Quiz Score: **10** out of 10