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Programming III - AP CS  
Review Questions

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**Review Questions #1-8**

1. a) class
2. b) cookie
3. d) instance
4. c) field
5. b) new
6. b) return
7. a) accessor
8. d) void

**Review Question #10**

10. b) constructor

**Review Question #12**

12. c) default constructor

**Review Questions #14-18**

14. True

15. True

16. False

17. True

18. False

**Find the Error #1-3**

1. public void MyClass(int a, double b)

constructor is not supposed to have void

2. public void total(int value1, value2, value3)

int must be carried for each value

3. Rectangle box = new Rectangle;

parenthesis required in statement

**Short Answer #1**

1. A class is code that describes a particular type of object, specifies the data an object can hold and the actions it can perform, while an instance of a class is a component that exists in memory and serves a specific purpose in a program and is created from a class that contains code describing the object.

**Short Answer #3-6**

3. An accessor method gets the value from the class’s field but does not change it, a mutator method sets a value in a field or changes the value of a field in some way.

4. It is good to make fields private to prevent the data from accidental corruption by restricting it’s internal data in a separate class.

5. The field, when private, can only be accessed by members of the same class.

6. The purpose of the keyword “new” serves the purpose creating a new object in the memory.

**Short Answer #9-12**

9. Constructors are useful for performing start-up operations because they perform initialization or setup operations to construct the object.

10. Fields and attributes share the same meaning, except the word fields is java-specific.

11. An argument is a value passed to a function. A parameter variable is a variable local to the function which receives the argument.

12. Java automatically provides a default constructor for a class in the situation in which the class does not provide one.

**Chapter 3 Additional Questions**

24. d) II and III only

14. c) biggest may not work correctly when a and b have equal values