**Review Questions**

**1. In Java, methods must include all of the following except .**

a. a declaration

b. a call to another method

c. curly braces

d. a body

**2. All method declarations contain .**

a. the keyword static

b. one or more explicitly named access specifiers

c. arguments

d. parentheses

**3. A public static method named computeSum() is located in classA. To call the**

**method from within classB, use the statement .**

a. computeSum(classB);

b. classB(computeSum());

c. classA.computeSum();

d. You cannot call computeSum() from within classB.

**4. Which of the following method declarations is correct for a static method named**

**displayFacts() if the method receives an int argument?**

a. public static int displayFacts()

b. public void displayFacts(int data)

c. public static void displayFacts(int data)

d. Two of these are correct.

**5. The method with the declaration public static int aMethod(double d) has a**

**method type of .**

a. static

b. int

c. double

d. You cannot determine the method type.

**6. Which of the following is a correct call to a method declared as public static void**

**aMethod(char code)?**

a. void aMethod();

b. void aMethod(‘V’);

c. aMethod(char ‘M’);

d. aMethod(‘Q’);

**7. A method is declared as public static void showResults(double d, int i). Which**

**of the following is a correct method call?**

a. showResults(double d, int i);

b. showResults(12.2, 67);

c. showResults(4, 99.7);

d. Two of these are correct.

**8. The method with the declaration public static char procedure(double d) has a**

**method type of .**

a. public

b. static

c. char

d. double

**9. The method public static boolean testValue(int response) returns .**

a. a boolean value

b. an int value

c. no value

d. You cannot determine what is returned.

**10. Which of the following could be the last legally coded line of a method declared as**

**public static int getVal(double sum)?**

a. return;

b. return 77;

c. return 2.3;

d. Any of these could be the last coded line of the method.

**11. The nonstatic data components of a class often are referred to as the of that class.**

a. access types

b. instance variables

c. methods

d. objects

**12. Objects contain methods and data items, which are also known as .**

a. fields

b. functions

c. themes

d. instances

**13. You send messages or information to an object through its .**

a. fields

b. methods

c. classes

d. type

**14. A program or class that instantiates objects of another prewritten class is**

**a(n) .**

a. class client

b. superclass

c. object

d. patron

**15. The body of a class is always written .**

a. in a single line, as the first statement in a class

b. within parentheses

c. between curly braces

d. as a method call

**16. Most class data fields are .**

a. private

b. public

c. static

d. final

**17. The concept of allowing a class’s private data to be changed only by a class’s own**

**methods is known as .**

a. structured logic

b. object orientation

c. information hiding

d. data masking

**18. Suppose you declare an object as Book thisBook;. Before you store data in thisBook,**

**you .**

a. also must explicitly allocate memory for it

b. need not explicitly allocate memory for it

c. must explicitly allocate memory for it only if it has a constructor

d. can declare it to use no memory

**19. If a class is named Student, the class constructor name is .**

a. any legal Java identifier

b. any legal Java identifier that begins with S

c. StudentConstructor

d. Student

**20. If you use the automatically supplied default constructor when you create an**

**object, .**

a. numeric fields are set to 0 (zero)

b. character fields are set to blank

c. Boolean fields are set to true

d. All of these are true.

**Exercises**

**1. Suppose that you have created a program with only the following variables:**

**int v = 4;**

**int w = 6;**

**double x = 2.2;**

**Suppose that you also have a method with the following header:**

**public static void calculate(int x, double y)**

**Which of the following method calls are legal?**

a. calculate(v, w);

b. calculate(v, x);

c. calculate(x, y);

d. calculate(18, x);

e. calculate(1.1, 2.2);

f. calculate(5, 7);

**2. Suppose that a class named ClassA contains a private nonstatic integer named b, a public nonstatic integer named c, and a public static integer named d. Which of the following are legal statements in a class named ClassB that has instantiated an object as ClassA obA = new ClassA();?**

a. obA.b = 12;

b. obA.c = 5;

c. obA.d = 23;

d. ClassA.b = 4;

e. ClassA.c = 33;

f. ClassA.d = 99;

**EJERCICIOS: https://github.com/octaviocel/Chapter3Joyce.git**