1. Objects contain *data* and what else?

*methods*

2. What does the word **class** imply?

*a collection of some category*

3. List 7 **Math** class methods.

*abs, pow, sqrt, round, floor, ceil, min, max*

4. List 2 **Math** class data members.

*PI and E*

5. What is the difference between **int** and **Integer**?

*int is a simple data type. Integer is a class.*

6. What is the difference between **double** and **Double**?

*double is a simple data type. Double is a class.*

1. How many different shades of *Red*, *Green*, or *Blue* are possible?

*255*

8. In the statement: **Bank tom = new Bank(2000);** What is ***Bank*** and what is ***Tom***?

*Bank is a class and tom is an object*

9. What **Scanner** method is used to enter a **String**?

*nextLine*

10. What **Scanner** method is used to enter an **int**?

*nextInt*

11. What **Scanner** method is used to enter a **double**?

*nextDouble*

12. Which methods will convert **Integer** and **Double** objects back to simple data types?

*intValue and doubleValue*

**Answer:** Splicing

1. To decrease the volume of a clip, you must decrease the size of its \_\_\_\_\_\_.

**Answer:** sample values

* 1. Quick Quizzes:

1. \_\_\_\_\_\_ blends two sounds together to play simultaneously.

**Answer:** Composing

1. True or False? If the factor used to multiply a sample’s value is greater than 1, the volume will decrease.

**Answer:** False. It will increase.

1. \_\_\_\_\_\_ combines two sounds by adding one after the other.

**Answer:** Splicing

1. To decrease the volume of a clip, you must decrease the size of its \_\_\_\_\_\_.

**Answer:** sample values

* 1. Quick Quizzes:

1. A loop that visits each element in a sequence using a single loop control variable uses a(n) \_\_\_\_\_\_ loop structure.

**Answer:** linear

1. The \_\_\_\_\_\_ method builds and returns a new image with the same attributes as the original, but with an empty string as the filename.

**Answer:** clone

1. True or False? A lower PPI causes the sampling device to take more samples (pixels) through a two-dimensional grid.

**Answer:** False. A higher PPI does this.

* 1. Quick Quizzes:

1. True or False? A mutator is a method that is used to modify the internal contents of an object.

**Answer:** True.

1. A(n) \_\_\_\_\_\_\_\_\_\_ contains code that is run to initialize data when an object is instantiated.

**Answer:** constructor

1. A(n) \_\_\_\_\_\_\_\_\_\_ is a method that returns a value.

**Answer:** accessor

* 1. Quick Quizzes:

1. The \_\_\_\_\_\_ corner of the screen coordinate system is (*width* -1, *height* -1).

**Answer:** lower-right

1. True or False? In the screen coordinate system, (0, 0) is at the center.

**Answer:** False. (0, 0) is in the upper-left of the screen coordinate system. It is at the center of the standard Cartesian coordinate system used in math.

34.What is an *array*?

*An array is a data structure with one, or more, elements of the same type.*

35. Write the Java code to declare an **int** array called *ages*?

*int ages[];*

36 Refer to the previous question. Write the Java code that will allocate memory for 30 *ages*?

37. Java arrays indicate individual elements with an \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ inside two brackets.

*index*

38. Write the Java code that will both declare and allocate memory for an array of 40 **String**s called *names* in one single programming statement.

*String names[] = new String[40];*

39. Write the Java code that will both declare and allocate memory for an initialized array of **double** values called **bob**. The initialized values will be **1.1**, **2.2**, **3.3**, **4.4**, and **5.5**.

*double bob[] = {1.1,2.2,3.3,4.4,5.5};*

40 .Refer to the previous question. In this situation, does the size of the array need to be specified?

*No*

41. What does **length** do when used with a *Java Static Array*?

*It tells you how many elements are in the array.*

42. Does the *new enhanced* **for** loop only work with **String** objects?

*No, it works with many data structures.*

43. Does the *new enhanced* **for** loop only work with *primitive* data types?

*No, an object is required.*

44. The *enhanced* **for** loop is called the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ loop.

*for..each*

45. Does the *enhanced* **for** loop replace the older **for** loop? Explain why.

*No, because it is not possible to access specific array elements.*