CSSE 220 – Object-Oriented Software Development
Rose-Hulman Institute of Technology

Worksheet 02

Name (Print):_____   Section:_____

1. Data can be stored and manipulated using two fundamental categories:

    1. _____

    2. _____

2. List primitive data types in Java: _____

3. Select the correct statements:

    (a) Primitives are stored directly in memory

    (b) Objects are stored directly in memory

    (c) Objects are instances of classes

    (d) Primitives are instances of classes

4. Array vs ArrayList:

Feature	Array	ArrayList
Size		
Type		
Functionality		

5. Array or ArrayList

    1) Use _____ when you know the exact size of the collection

    2) Use _____ you need a dynamic collection that can grow or shrink

6. Create an array with 3 numbers and print it (HINT: you also need to import a library java.util.Arrays):

```
1
2    _____
3
4    _____
5
6    System.out.println_____;
```

7. List the default values for:

   1) Boolean type:

   2) Number type:

   3) Object type:

8. 1) ArrayList cannot be used for _____

   2) We need a _____ class

9. Identify the Wrapper Classes

Primitive Data Type	Wrapper Class
int	
double	
boolean	
char	

10. Create an ArrayList with integers called nums and an ArrayList with strings called str (HINT: you also need to import a library java.util.ArrayList):

```
1
2    ------------------------
3
4    ----------------------
5
6    --------------------------------
```

11. You created an ArrayList called list, complete the following instructions:

    1) Add the value 5 to list : _____

    2) Add the value 10 at the index 2 : _____

    3) Display the value at the index 1 : _____

    4) Remove the value at the index 1 : _____

12. To get a length of Arrays and ArrayLists, you use:

    1) .length for _____

    2) .size() for _____