

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

Worksheet 01

Name (Print): \_\_\_\_\_ Section: \_\_\_\_\_

1. Java (WORA) principle: “Write \_\_\_\_\_, run \_\_\_\_\_”
2. Circle applications where Java is used: (1) Mobile apps, (2) Web apps, (3) Enterprise software
3. Java Ecosystem:

Abbreviation	Full name	Function
		Tools for developing Java applications
		Run Java applications
		Execute Java bytecode

4. OOP: Align terms and definitions

Term	Definition
Inheritance	Defines object properties and actions
Object	Shares features between classes
Class	Action adapts to objects
Polymorphism	Hides sensitive details
Encapsulation	Represents a real thing

5. Provide 3 ways of making comments:

```

1 1) single-line
2  -----
3 2) multi-line
4  -----
5  -----
6  -----
7 3) javadoc
8  -----
9  @param _____
10 @return _____
11 -----

```

6. Select the correct statement:

1. Class name and the file name must be the same
2. camelCase is used for Classes
3. camelCase is used for methods and variables

7. Class components:

1. \_\_\_\_\_ hold the data for each object
2. \_\_\_\_\_ describe how to create a new object instance
3. \_\_\_\_\_ describe the actions for the object

8. Name at least one difference between an instance variable (class field) and a local variable (inside the method):

\_\_\_\_\_

9. List common primitive data types in Java: \_\_\_\_\_

10. List common reference data types in Java: \_\_\_\_\_

11. Write the output:

- (a)  $2 + 3 =$
- (b) `'2' + '3' =`
- (c) `"2" + "3" =`
- (d) `"2" + '3' =`

12. List the default values for:

- 1) Boolean type:
- 2) Number type:
- 3) Object type:

13. Write one question that you want to discuss in class about today's topics (for example you are curious about something or unclear about something):