

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

Worksheet 07

Name (Print): _____ Section: _____

1. The keyword _____ shows that a field/method belongs to the class itself.

2. True/False You can access static members without creating an instance of object.

3. Instance and class member?

1) _____: Only one copy exists regardless of the number of instances

2) _____: Each object has its own copy

4. Final keyword indicates that the field is _____.

5. True/false To call a static method you must create an instance of the class

6. Provide 2 static examples using Math class:

1) Static field: _____

2) Static method: _____

7. Name 1 pro and 1 con for using Static:

1) _____

2) _____

8. Select the correct statements:

- 1) You can use **this** with static
- 2) You cannot use **this** with static
- 3) the main method is always static
- 4) the main method does not have to be static

9. _____ allows a subclass to modify a method already defined in its superclass

10. Superclass or Subclass

- 1) _____: the parent class from which other classes inherit
- 2) _____: a child class that extends the functionality of its superclass

11. You want to override a toString method to print name and balance in your bank Account class. Complete the code below:

```
1  
2  -----  
3  
4 public ----- {  
5  
6     return this.name + " " + this.balance;  
7 }
```

12. What are the 4 pillars of OOP principles:

- 1)
- 2)
- 3)
- 4)

13. Given two strings, how you would combine them (use a method):

```
1 String s1 = "March";  
2 String s2 = "Madness";  
3 -----
```

14. Encapsulation involves bundling data (attributes/fields) and methods into _____