

Review the Composition 1 demo program and answer the following questions.

1. What kind of relationship is there between the `Student` class and the `Name` class?
2. Is there a default constructor in the `Name` class?
3. How many properties are there in the `Name` class?
4. Write out an accessor method for the `myFirstName` instance field of the `Name` class.

5. What is displayed by the statement `System.out.println(student1.getGradeLevel());` ?

6. Would an error occur with the following statement in the client program? If so, explain.

```
Student student2 = new Student("John", "Smith", 10);
```

7. Would an error occur with the following code segment in the client program? If so, explain.

```
Name name2 = new Name();  
name2.setFirstName("Mary");  
name2.setLastName("Jones");  
Student student3 = new Student(name2, 9);
```

8. Write out a default constructor for the `Student` class that initializes `myGradeLevel` to 9 and so that its `Name` instance variable's `myFirstName` and `myLastName` instance variables are empty strings.

9. On the back of this paper, draw a diagram similar to the one that is found in the Composition lecture notes that illustrates the special relationship between the `Student` and `Name` classes in the `CompositionDemo1` program.