Original Partner	Obstacle 6	Paired Partner ("grader")	SCORE OBTAINED
Student #	COMP 10062	Student #	_____ 5
		Inheritance	

Answer each question in the space provided.   There's a ZIP file available in order to help you get these questions right!

1

```
public class ClassA {
    private static int num;
}


public class ClassB {
    ClassA a, b;
}
```

1a) What kind of a relationship are ClassA and ClassB in?

_____

type of relationship

1b) Draw the UMLs (with the correct arrow) which describes the two classes.

ClassA

ClassB

2

public class ClassA {   }

public class ClassB extends ClassA {   }

2a) What kind of a relationship are ClassA and ClassB in?

_____

type of relationship

2b) Draw just the connecting arrow between these two UMLs.

ClassA

ClassB

3	Provide a small example of OVERRIDING and one of OVERLOADING methods	
	//OVERRIDING EXAMPLE	//OVERLOADING EXAMPLE

4	
Declare a 1000 element array of Dice. Then, roll each die once. Output only the current face on the 5th die of the array.

Die

- numberOfFaces: int
- currentFace: int

+ Die( )
+ Die(numFaces: int)
+ getCurrentFace( ) : int

+ roll( ) : int
+ toString( ) : String | |