

Group 42

Homework 2

Caleb Ewer	cewer	cewer@asu.edu
Miranda Coston	mcoston	mcoston@asu.edu
Samuel Ketcham	scketch1	sketch1@asu.edu
Lorenzo Stewart	lkstewa2	lkstewa2@asu.edu

3.2 (a) and (c) are legal.

3.6 An overloaded method is when a class has more than one method of the same name but their parameters are different:

```
Public static void main(String []args){  
    Public class CalculateSquare{  
        Public void square()  
            { System.out.println("a square!");}  
        Public int square (int number)  
            { int square = number * number}  
        Public double square (double number)  
            { double square = number * number; }  
    }  
}
```

3.7 An overridden method in java is when a subclass or child class provides specific implementation of a method already provided by one of its superclasses.

```
Class Doggo{  
    Public void sit()  
        { System.out.println("the doggo is sitting"); }  
    Class Lab extends Doggo{  
        Public void sit()  
            {System.out.println("the lab is sitting"); }  
    }  
}
```

3.8 Accidental overloading occurs when the class contains the same method name but with a different number of parameters and datatype. In order to prevent it from occurring, it is important to utilize the final, static, and private keywords as well as the @Override annotation.

3.10 True

3.15 It is NOT legal. It will throw a compile time error because the method is not present in the superclass.

6.2 An anonymous class is a local class without a name. An inner class is a class inside of a class. A local class is an inner class declared inside of a code block rather than as part of another class' definition.