Name: ___________ Key ___________ Section: ___________ 

Please answer the questions using the following figure:

1. Declaring a variable of a superclass with a value of a subclass is an example of _______ polymorphism _______. It allows many subtypes to be stored in the same array or data structure of the supertype.

2. Let's have the following relationship: Car extends Vehicle, and the following line of code: Vehicle v = new Car(); 
   In the context of this declaration, Vehicle is referred to as the _______ declared type _______, and Car is referred to as the _______ actual type _______.

3. Casting a variable’s type to a superclass is referred to as _______ upcasting _______ and is done _______ implicitly _______.

4. A(n) _______ abstract class _______ prevents construction of a types value, i.e., cannot use the keyword new. In these types, a(n) _______ abstract method _______ will require any subtypes to override them, i.e., enforce a contract for a super and sub type relationship.

5. An interface is similar to a class, but is a construct only defining an API for an object. Specifically, all variables in an interface must be _______ public static final _______ and all methods in an interface must be _______ public abstract _______.