1. This figure is an example of ______ Inheritance ______, a concept in object-oriented programming modeling ______ is-a ______ relationships.

2. **Arthropoda** in this relationship is referred to as the ______ super ______ class/type. **Arachnida** in this relationship is referred to as the ______ sub ______ class/type.

3. The keyword in Java used to define this relationship for an object is ______ extends ______.

4. The keyword ______ super ______ in Java would call/access constructors/methods/members of **Arthropoda** inside of **Arachnida**. This is also partially solved by using the keyword ______ protected ______ for the visibility modifier of specific data or methods.

5. If **Arthropoda** has a function **molt**, but **Arachnida** specifically needs to adjust the functionality of **molt** then this function should be ______ overridden ______.