1) You need to model an "is a" relationship. What should you do?

*Create a class that inherits from another class.*

2) The process of creating an object is called:

*instantiation*

3) A class named Pet is derived from a class named Animal. The Dog class is derived from the Pet class and includes attributes belonging to the Pet class and the Animal class. What object-oriented programming term best describes this concept?

*Inheritance*

4) What term is used to describe a class that serves as a starting point for new classes?

*Base class*

5) A class named Employee contains a Protected member named Salary. A class named Manager does not define the Salary member, but the Manager class can access the Salary member in the Employee class. Which object-oriented feature does this represent?

*Inheritance*

6) Two classes are derived from the same base class and both override the same inherited method to provide their own implementation. Which term best describes this concept?

*Polymorphism*

7) A class named Shape contains a method named CalculateArea that is declared as Protected. Which classes can access the CalculateArea method?

*Only the Shape class and all classes that inherit from Shape*

8) Three concrete classes named Circle, Square, and Triangle all inherit from a base class named Shape. The three concrete classes provide different implementations of a method named CalculateArea, which is defined in the Shape class. Which concept is representative of polymorphism?

*The different implementations of the CalculateArea method*

9) In the code shown in the exhibit, the keywords Public, Protected, and Private:

*determine the accessibility of this class and its members to code within other classes.*
10) You want the members of a class to be accessible only to code that is within the same class. Which access modifier should you use?

*Private

11) When a single inheritance model is used:

*a class can inherit from only one base class.

12) A class contains a public method named ComputeSalesTax that computes the sales tax based on a specified state abbreviation and a dollar amount. This eliminates the need for client code to know the sales tax rates for each state. Which object-oriented feature is this called?

*Encapsulation