

1. Data members
2. Must match the class name
3. The private is a keyword used in the declaration of class members when those members should be visible to the class but not to client code, while public is an access modifier used in the declaration of a class to indicate that the class is visible to client code
4. Valid

5a: Roo

5b: x

5c: getx()

5d: setX(int z)

5e: factor()

5f: Roo()

5g: 4

6. A class is a data type that defines variables for the state of an object and methods for an object's behavior, while an object is an instance of a class.

9a: z

9b: x and y

9c: y

9d: x and z

11. Method overriding and overloading are both ways to use methods with the same name, but they serve different purposes and operate under different rules.

