1. If the access modifiers for Cylinder's variables are changed to private, the variables will not be directly accessible from outside the Cylinder class. Private variables can only be accessed from within the class they are declared in, they are not accessible from other classes.

2. If you declare a private variable in the Cone class, it cannot be directly accessed in the Cylinder class. Private members of a class are accessible only within the class in which they are declared. Therefore, the private variable in the Cone class will not be directly accessible in the Cylinder class.

3. The option to share private members between classes is to use the friend keyword. By declaring a class as a friend of another class, the friend class gains access to the private members of the other class. This allows controlled sharing of private members between specific classes.

4. Answer Choices:

1. C. The leaf count will be set to 0.

2. C. Protected

3. A. Public, private, protected

4. D. Pay rate

5. B. Private