```
public class ClassA extends ClassB { //complier error
  public abstract void someFunction();
}
```

Q1: According to the above code how solve this error:

- A. The classA must be abstract if have one abstract method or more
- B. The classA must be private
- C. The method someFunction must be changed to public
- D. The method some Function must be changed to private

```
1 public class Main {
2  public static void main(String[] args) {
3     Shape s = new Shape(); // Compiler error: Cannot instantiate the abstract class Shape
4     System.out.println(s.getArea());
     }
}
```

Q2: According to the above code the error appears because:

- A. Because the class shape private
- B. The object can't be created from abstract class directly.

Q3: According to the above code the error in line 3 can be solved as follow:

- A. Shape s = new Shape (5, 10)
- B. Shape s = new Rectangle (5,10);

```
abstract class Shape {
    protected String color;

    public Shape(String color) {
        this.color = color;
    }

    public abstract double calculateArea();

    public abstract double calculatePerimeter();

    public String getColor() {
        return color;
    }
}
```

Q4: According to the above code class Shape is:

- a. Abstract
- b. Public
- c. Private
- d. Package default

Q5: Which of the following statements is true about the Shape class and its subclasses?

- A) The **Shape** class cannot have any abstract methods.
- B) Subclasses of **Shape** must provide an implementation for the **getColor()** method.
- C) The calculateArea() method must have a return type of int.
- D) Subclasses of **Shape** cannot have additional instance variables.