Problem 13.1

GeometricObject

-color:String -filled:boolean -date:Created:java.util.Date

#GeometricObject()
#GeometricObject(color:string, filled:boolean)
+getColor():String
+setColor(color:String):void
+isFilled():boolean
+setFilled(filled:boolean):void
+getDateCreated():java.util.Date
+toString():String
+getArea():double
+getPerimeter():double

Triangle

-side1:double-side2:double-side3:double

+Triangle +Triangle(side1: double, side2:double, side3:double) +getArea():void +getPerimeter():void +toString():String

Problem 13.5

<<interface>> java.lang.comparable

+ compareTo (obj: Object): int

GeometricObject

-color:String -filled:boolean -date:Created:java.util.Date #GeometricObject()
#GeometricObject(color:string, filled:boolean)
+getColor():String
+setColor(color:String):void
+isFilled():boolean
+setFilled(filled:boolean):void
+getDateCreated():java.util.Date
+toString():String
+getArea():double
+getPerimeter():double

+compareTo (obj: GeometricObject): int

+max(obj1: GeometricObject, obj2: GeometricObject): GeometricObject

Circle	Rectangle
-radius: double	-width: double -height: double
+Circle() +Circle(radius: double) +Circle(radius: double, color: string, filled: boolean) +getRadius: double +setRadius(radius: double): void	+Rectangle() +Rectangle(width: double, height: double) +Rectangle(width: double, height:double, color:string, filled:boolean) +getWidth():double +setWidth(width: double): void +getHeight(): double +setHeight(height: double): void

Problem 13.7

Colorable	GeometricObject
Attributes	Attributes
Operations +howToColor()	Operations +GeometricObject()

Square
Attributes
Operations +Square()

Operations implemented from colorable +void howToColor()

Problem 13.9

GeometricObject

-color:String -filled:boolean -date:Created:java.util.Date

#GeometricObject()
#GeometricObject(color:string, filled:boolean)
+getColor():String
+setColor(color:String):void
+isFilled():boolean
+setFilled(filled:boolean):void
+getDateCreated():java.util.Date
+toString():String
+getArea():double
+getPerimeter():double

Circle

-radius: double

+Circle()

+Circle(radius: double)

+Circle(radius: double, color: string, filled:

boolean)

+getRadius: double

+setRadius(radius: double): void

+getDiameter(): double

ComparableCircle

Problem 13.11

Class GeometricObject

<<interface>>

Comparable

+CompareTo(obj:Object):int

<<interface>> Cloneable

+object clone() throws CloneNot supported Exception

Octagon class

Attributes

Operations +Octagon() +Octagon(double side) +void setSide(double side) +double getSide() +double getArea() +double getPermeter()