Colorable
+   howToColor: String

Square
-   side: double
+   Square() +   Square(side: double, color: String, filled: boolean) +   setSide(side: double): void +   getSide(): double +   getArea(): double +   getPerimeter(): double +   howToColor(): String +   toString(): String

GeometricObject
-   color: String -   filled: boolean -   dateCreated: 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

Circle
-    radius: double
+   Circle() +   Circle(radius: double) +   Circle(radius: double, color: String, filled: boolean) +   getRadius(): double +   setRadius(radius: double): void +   getArea(): double +   getDiameter(): double +   getPerimeter(): double +   equals(o: Object): boolean +   compareTo(o: Circle): int +   toString(): String

Octagon
-    side: double
+   Octagon() +   Octagon(side: double) +   setSide(side: double): void +   getSide(): double +   getArea(): double +   getPerimeter(): double +   compareTo(o: Octagon): int +   clone(): Object +   toString(): String