8.1

|  |
| --- |
| ***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* |

|  |
| --- |
| **Triangle** |
| -side1: double  -side2: double  -side3: double |
| +Triangle()  +Triangle(side1: double, side2:double, side3:double)  +getSide1(): double  +getSide2(): double  +getSide3(): double  +setSide1(side1: double): void  +setSide2(side2: double): void  +setSide3(side3: double): void |

8.2

|  |
| --- |
| Circle |
| -radius: double |
| +Circle()  +Circle(radius: double)  +getRadius():double  +setRadius(radius: double):void  +getArea(): double  +getPerimeter():double |

|  |
| --- |
| *《interface》*  *Comparable<ComparableCircle>* |
| *+compareTo(o: Circle):int* |

|  |
| --- |
| ComparableCircle |
| +ComparableCircle(radius: double)  +comparaTo(o: Circle): int |

8.3

|  |
| --- |
| **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 |

|  |
| --- |
| ***《interface》***  ***Colorable*** |
| *+howToColor(): void* |

|  |
| --- |
| **Square** |
| -sideLength: double |
| +Square()  +Square(sideLength: double)  +howToColor(): void  +getSideLength(): double  +setSideLength(sideLength: double): void |