***Shape***

*+getPerimtr()*

*+getArea()*

*+accept(v: Visitor)*

**Equilateral triangle**

**RightTriangle**

**Rectangle**

**Trapezoid**

**Circle**

+accept(v: Visitor)

+getPerimtr()

+getArea()

**+getSide()**

+accept(v: Visitor)

+getPerimtr()

+getArea()

+getWidth()

+getHeight()

+accept(v: Visitor)

+getPerimtr()

+getArea()

+getRadius()

+accept(v:

Visitor)

+getPerimtr()

+getArea()

**+getA()**

**+getB()**

**+getH()**

+accept(v: Visitor)

+getPerimtr()

+getArea()

+getWidth()

+getHeight()

***Quadrilateral***

**Ellipse**

**Triangle**

-sideA

-sideB

-sideC

*+isAQuadrilateral()*

*+getPerimtr()*

*+getArea()*

+accept(v: Visitor)

+getPerimtr()

+getArea()

*+getXRadius()*

*+getYRadius()*

**IsoscelesTriangle**

+accept(v: Visitor)

+getPerimtr()

+getArea()

*+getSide()*

*+getHeight()*

**Square**

+accept(v: Visitor)

+getPerimtr()

+getArea()

+getSide()

-side: (4条边相等，隐含直角)

-radius

-side:

-height

-width

-xRadius

-yRadius

-width(宽)

-height(高) 隐含直角

-a

-b

-h

-side

-height

+accept(v: Visitor)

+isATriangle()

+getPerimtr()

+getArea()

+getSideA()

+getSideB()

+getSideC()

**Parallelogram**

+accept(v: Visitor)

+getPerimtr()

+getArea()

+getSide1()

+getrSide2()

+getHeight()

-side1(两条等长边)

-side2 (两条等长边)

**-height(确定唯一四边形)**

***Visitor***

+visitTriangle(t: Triangle)

+visitIsoscelesTriangle(i: IsoscelesTriangle)

+visitEquilateral(e: Equilateral)

+visitRightTriangle(r: RightTriangle)

+visitRectangle(r: Rectangle)

+visitSquare(s: Square)

+visitTrapezoid(t: Trapezoid)

+visitEllipse(e: Ellipse)

+visitCircle(c: Circle)