

// SquareTest class

a client class or
client program or
test class

public class SquareTest

```

{
    public static void main(String[] args)
    {
        Square block = new Square();
        Square box = new Square(3);
        block.setWidth(4);
        System.out.println(box.getWidth()); // 3
        System.out.println(block.computeArea()); // 16
        System.out.println(box.computePerimeter()); // 12
    }
}

```

an object
variable

declaring a reference or object variable

instantiating an object & calling the
default constructor

calling an instance method

an actual parameter

// Square class

class Square

```

{
    // ***** constructors

    // default constructor
    public Square()
    {
        myWidth = 0;
    }

    // "other" constructor (aka a constructor with parameters)
    public Square(double width)
    {
        myWidth = width;
    }

    // ***** accessor method
    public double getWidth()
    {
        return myWidth;
    }

    // ***** modifier methods
    public void setWidth(double width)
    {
        myWidth = width;
    }

    // ***** "interesting" methods
    public double computeArea()
    {
        return myWidth * myWidth;
    }

    public double computePerimeter()
    {
        return myWidth * 4;
    }

    // ***** instance variables (properties)
    private double myWidth;
}

```

the
body
of a
method

the method's return type

a formal parameter

the declaration statement for an instance field (aka instance variable or property)