```java
/**************************************************************************
*
*      File: TwoNumbers.java
*
*      Project:   TwoNumbers
*
*      Description:   This is part one of Lab3.   Its job is to provide methods
*                       and varibles.
*
*      Author:   Joshua Wiley
*
*      Date:   2-15-15
*
*      Comments:   Specs were a little hard to follow. It wasn't clear what the
*                   Test program did until part three.  Added two class methods
*                   to send the current numbers to my test programs. Also corrected
*                   the poor programming practices.
*
***************************************************************************/

public class TwoNumbers
{

        /*** Class Variables ***/

        private double number1;
        private double number2;

        public TwoNumbers( double number1, double number2)
        {
                this.number1 = number1;
                this.number2 = number2;
        }

        /*** Constructors ***/

        public void setNums( double number1, double number2 )
        {
                this.number1 = number1;
                this.number2 = number2;
        }

        /*** Class Methods -- Accessors ***/

        //Special method to send the numbers to other class
        public double getNum1()
        {
                return this.number1;
        }

        public double getNum2()
        {
                return this.number2;
        }
```

```java
/*** Operations methods ***/

public double getSum()
{
        return this.number1 + this.number2;
}

public double getDifference()
{
        return this.number1 - this.number2;
}

public double getProduct()
{
        return this.number1 * this.number2;
}

public double getQuotient()
{
        return this.number1 / this.number2;
}

public double getAverage()
{
        return (this.number1 + this.number2) / 2;
}

/*** Application ***/

public static void main(  String[] args )
{
        TwoNumbersTester test = new TwoNumbersTester();
        test.startNumberTester();
}
}
```