

Name _____ Period _____

1. Write a driver class called "VariableTypes". In the the driver class,

- a) Write a single line of code that will create a double precision variable called "p" and store 1.921×10^{-15} in it. (Note 1.921×10^{-15} can also be written as 1.921E-15)
- b) Write a single line of code that will create an integer variable called i and store 407 in it.
- c) Write a single line of code that will create a String variable called myName and store your name in it.

```
public class VariableTypes{

    public static void main(String args[]){

        double p = 1.921E-15;
        int i = 407;
        String myName = "Pluska";
    }
}
```

/5

2. Write a driver class called "StringOperations". In the driver class,

- a) Create a String variable "s" and initialize it to "The number of rabbits is". Create an int variable called "argh" and initialize it to 129. Concatenate these variables into a String called "report". Then print "report". The printout should read: *The number of rabbits is 129*.
- b) Write code that declares a variable "n", but do not initialize it. Determine the number of characters in the String m = "JAVA Rocks" and assign that value to variable "n". Print the value of "n" to the consol.

```
public class StringOperations{
    public static void main(String args[]){

        String s = "The number of rabbits is";
        int argh = 129;
        String report = s + " " + 129;
        System.out.println(report)
    }
}
```

/6

3. Complete the following code segments.	
(a) Write code that will assign the value of "Computer Science is Cool" to the String variable "g". Then have it print this String in all lower case.	
<pre>String g = "Computer Science is Cool"; System.out.println(g.toLowerCase());</pre>	
	/2
(b) Initialize a String variable b to "Four score and seven years ago". Print all the characters between (not inclusive) the first "s" in score and the "y" in years (EX: "core and seven ")	
<pre>String b = "Four score and seven years ago"; System.out.println(b.substring(6, 21));</pre>	
	/2
(c) Write code that will produce the following printout using only a single println(),	
<pre> Hello Hello Again System.out.println("Hello \n Hello Again");</pre>	
	/2
(d) Write code that will print the following to the consol,	
<pre> "Look here!" Note, the quotes must display when printed. System.out.println("\"Look here!\");</pre>	
	/2

4. Consider the word below,

Bicycle

Write a driver class called WordScramble that extracts the first half and second half of the word, then recombines the halves such that the last half is printed first followed by the first half.

The result that should appear when your program is ran is shown below. **NOTE:** the final result should be all lower case.

* yclebic

```
public class WordScramble{

    public static void main(String args[]){

        String word = Bicycle;
        int wordMiddle = word.length()/2;

        String scrambledWord = word.substring(wordMiddle) +
word.substring(0, wordMiddle);

        System.out.println("*" + scrambledWord.toLowerCase());

    }
}
```

/4