Name

Write a driver class called "Numeric Variables". In the the driver class, (2 points) Indicate each part below in your code with appropriate comments. For example, for part a type "//Part a". (1 point) a) Declare and initialize an int a1. Write a single line of code that will print to the console the value of all decremented by 1. (2 points) b) Declare and initialize an integer b1. Declare and initialize an integer b2. Then write a single line of code that uses the compound operator, -=, to subtract b2 - 30 from the value of b1 and store the result back in b1. (2 points) c) Initialize an integer variable c1 and another integer c2 to a value smaller than c1. Write a program that prints the remainder that results when these two numbers are divided. (2 points) d) Write code that will create a constant variable D1 that is equal 2.718. (1 point) e) Declare and initialize a double variable e1. Declare and initialize an int variable e2. Declare an int variable e3, and assign the value of e1 divided by e2 to e3. (2 points) /12 2. For each of the following code segments, indicate the output. (1 point each)

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Period_

(a)	
int a = 5;	
$\inf_{b \to a} b = 11;$	
b*=a;	
System.out.println($b + 1$);	
(b)	
double $m = 41$;	
$\operatorname{int} j = 5;$	
m = m/j;	
System.out.println(m)	
The following code applies to (c) thru (h)	
int dividend = 6 , divisor = 2 , quotient = 0 , remainder = 0 ;	
int dividend $2 = 5$, divisor $2 = 3$, quotient $2 = 0$, remainder $2 = 0$;	
quotient = dividend/divisor;	
remainder = dividend % divisor;	
quotient2 = divident2/divisor2;	
remainder2 = dividend2 % divisor2;	
(c) System.out.println(quotient);	
(c) System.out.printin(quotient),	
(d) System.out.println(remainder);	
(a) ajaman (anaman),	
(e) System.out.println(quotient2);	
(c) System.out.printin(quotient2),	
(f) System.out.println(remainder2);	
(g) System.out.println(quotient += quotient2);	
(h) System.out.println(++remainder);	
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3. Consider the code below. Predict the result of each of the following numeric operations

```
double d1 = 37.9;

double d2 = 1004.128;

int i1 = 12;

int i2 = 18;

(a) 57.2 * (i1/i2) + 1

(b) 57.2 * ((double)i1/i2) + 1

(c) 15 - i1 * (d1 * 3) + 4

(d) 15 - i1 * ((int)d1 * 3) + 4
```

4. Write code that could be used to reverse a number and store the reversed number in a variable called reversed. Your code should work for any number with 4 digits. Consider the int data type below,

int number = 1234;

When your code is ran, "4321" should be stored in reversed.

Below are more examples,

int data type	!	reversed
int n1 = 3455	;	5543
int n2 = 8767	' ;	7678
int n3 = 2468	;	8642

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