Name ______Period_____

1. Consider the code below. Predict the result of each of the following numeric operations	
<pre>double d1 = 37.9; double d2 = 1004.128; int i1 = 12; int i2 = 18;</pre>	
(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

A RandomNumber class below accepts a positive integer from the user and assigns this value to a variable called max. It then creates a random number within a range that spans the negative value of the max (inclusive) and the positive value (not inclusive) and prints the result to the console. Consider the following examples,

Run	Output
Java RandomNumber 10	8
Java RandomNumber 5	-3
Java RandomNumber 8	0
Java RandomNumber 11	11

Complete the RandomNumber class below.

```
public class RandomNumber{
     public static void main(String args[]){
          int max = args[0];
```

Score _____/12

A BinaryToDecimal class below accepts a 3-digit positive binary integer from the user and assigns this value to a variable called bin. It then converts the number to its decimal equivalent and stores the result in a variable called dec. Consider the following examples,

Run	value of dec
Java BinaryToDecimal 011	3
Java BinaryToDecimal 101	5
Java BinaryToDecimal 111	7
Java BinaryToDecimal 010	2

Complete the BinaryToDecimal class below.

```
public class BinaryToDecimal{
    public static void main(String args[]){
          int bin = args[0];
                                                                          /4
```