**Name : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Math and Methods**

**DIRECTIONS :** Fill in each blank with the correct answer/output. Assume each statement happens in order and that one statement may affect the next statement.

**double** z = 45.5; **long** x = 82;

**int** a = 13, b = 7; **char** var = ‘K’;

1. \_\_\_\_\_\_\_\_\_\_\_\_

2. \_\_\_\_\_\_\_\_\_\_\_\_

3. \_\_\_\_\_\_\_\_\_\_\_\_

4. \_\_\_\_\_\_\_\_\_\_\_\_

5. \_\_\_\_\_\_\_\_\_\_\_\_

6. \_\_\_\_\_\_\_\_\_\_\_\_

7. \_\_\_\_\_\_\_\_\_\_\_\_

8. \_\_\_\_\_\_\_\_\_\_\_\_

9. \_\_\_\_\_\_\_\_\_\_\_\_

10. \_\_\_\_\_\_\_\_\_\_\_\_

11. \_\_\_\_\_\_\_\_\_\_\_\_

12. \_\_\_\_\_\_\_\_\_\_\_\_

13. \_\_\_\_\_\_\_\_\_\_\_\_

System.out.print( 6 / 3 \* 3 ); // LINE 1

System.out.print( 6 / (3 \* 3) ); // LINE 2

System.out.print( a % 2 ); // LINE 3

System.out.print( x % 2 ); // LINE 4

System.out.print( a % 2 == 0 ); // LINE 5

System.out.print( a / b \* b); // LINE 6

System.out.print( b % a ); // LINE 7

System.out.print( ‘A’+ 5 ); // LINE 8

System.out.print( (double)( (a+8) / b) ); // LINE 9

System.out.print( (double)a / (b – 2) ); // LINE 10

System.out.print( var + 5); // LINE 11

System.out.print((char)(var + 5)); // LINE 12

a= (int)z+ a + b / 3 \* 4;

System.out.println((char)a ); // LINE 13

Consider the following method headings:

void shape()

void shape(float big)

int random()

int random2(int start, int end)

boolean isEven(int num)

How many overloaded methods are there? \_\_\_\_\_\_\_\_

Pick a method from above that is not overloaded and write a method heading that would cause the method to become overloaded: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Write a method called rAvg that will take in three whole numbers and return the rounded average of those three numbers. (\*Be careful about data types in your program\*)