

Name: \_\_\_\_\_

Section: \_\_\_\_\_

### Quiz #3

1. [6 points] Assume you will be using a variable that represents the “number of puppies”, which will be an integer.
  - a. Declare this variable using “camel case” style. (Use all three words “number of puppies” without abbreviating.)
  - b. Declare this variable as a named constant (symbolic constant) that is initialized with the value 10. Be sure to enforce the policy that the variable’s value cannot be modified later. (Again, use all three words with no abbreviation.)
2. [8 points] What will be the output from the following code fragment? [Hint: Use a trace table – make a chart to keep track of the values of the variables as you trace the code.]

```
int j = 4;
for (int i = 0; i < 6; i = i + 2){
    while (i < j){
        System.out.println( i + " and " + j);
        j = j - 2;
    }
    j = j + 4;
}
```

**[More on the back page...]**

3. [16 points] Complete the program below. It should prompt the user to enter a size, and then print a table of that size like the one below.

For example, here is the table in the case where the user has requested size 5. [Just put a space between adjacent elements in each row – it's okay if the columns don't line up.]

```
1 2 3 4 5
6 7 8 9 10
11 12 13 14 15
16 17 18 19 20
21 22 23 24 25
```

---

```
import java.util.Scanner;

public class MyTable {
    public static void main(String[] args) {
        Scanner s = new Scanner(System.in);
```