CSE 142 Section Handout #1
Problems

Ballparking

1. (We don't know the exact answers to these questions; mainly we ask them to stimulate discussion.)

   a) How many birthday posts occur on Facebook on a given day?

   b) How many cows are there in Canada?

   c) How many golf balls could you fit into a school bus?

`System.out.println` *(more practice: Ch. 1 self-checks 7-17; exercises 1-6)*

2. **Exercise 1.7, p55 ("Mantra")**. Write a complete Java program that produces the exercise's output. For now, put all of your code into the program's `main` method.

```
There's one thing every coder must understand:
The System.out.println command.

There's one thing every coder must understand:
The System.out.println command.
```

3. **Self-Check 1.12, p48 ("DoubleSlash")**. Write the output of the program shown.

```
public class Letter {
    public static void main(String[] args) {
        System.out.println("Dear \"DoubleSlash\" magazine,");
        System.out.println();
        System.out.println("\tYour publication confuses me. Is it ");
        System.out.println("a \\\\ slash or a //// slash?");
        System.out.println("\nSincerely,");
        System.out.println("Susan \"Suzy\" Smith");
    }
}
```

4. **Exercise 1.4, p55 ("Difference")**. Write a complete program that produces the output shown.

```
What is the difference between
a ' and a "?  Or between a " and a \"?

One is what we see when we're typing our program.
The other is what appears on the "console."
```

CSE 142 Section Handout #1

Static Methods

(more practice: Ch. 1 self-checks 21-28; exercises 7-17)

5. **Self-Check 1.26, p52 ("Confusing")**. Write the output of the program shown.

```
public class Confusing {
    public static void method1() {
        System.out.println("I am method 1.");
    }

    public static void method2() {
        method1();
        System.out.println("I am method 2.");
    }

    public static void method3() {
        method2();
        System.out.println("I am method 3.");
        method1();
    }

    public static void main(String[] args) {
        method1();
        method3();
        method2();
        method3();
    }
}
```

6. **Exercise 1.7, p55 ("Mantra"), revisited**. Improve the Mantra program from Problem #2. Remove its redundancy by adding a static method.

7. **Exercise 1.13, p57 ("StarFigures")**. Write a complete program that generates the output shown. Use static methods to show structure and to eliminate redundancy in your solution.

```
*****
*****
 * *
  *
 * *

*****
*****
 * *
  *
 * *
*****
*****

  *
  *
  *
*****
*****
 * *
  *
 * *
```

If you have time, consider adding a comment heading with your name and section at the top of the program.