Unit 1 Practice Test

1. Consider the following Scratch script:

![Scratch script image]

When the script is run, how many times will the `move` statement be executed?

A. 6  
B. 10  
C. 16  
D. 20  
E. 60

2. Consider the following Scratch script:

![Scratch script image]

When the script executes, what will happen if the user enters the number 15?

A. the sprite will say “Hello!”, and then the script will end
B. the sprite will say “Howdy!”, and then the script will end
C. the sprite will say “Hello!” and move 10 steps, and then the script will end
D. the sprite will say “Howdy!” and move 10 steps, and then the script will end
E. the sprite will say “Hello!”, move 10 steps, and say “Bonjour!”, and then the script will end
F. the sprite will say “Howdy!”, move 10 steps, and say “Bonjour!”, and then the script will end
3. Which of the following is not a valid Java statement?

   A. `System.out.println("The moon said, "Goodbye!");`
   B. `System.out.println("Goodbye, moon!");`
   C. `System.out.print("Goodbye, moon!");`
   D. `System.out.println();`
   E. none of the above (i.e., all of the above statements are valid)

4. Consider the following Scratch building blocks:

   I. 
   II. 
   III. 

   Which of them can be used to form a boolean expression?

   A. only block I
   B. only block II
   C. only block III
   D. blocks I and II, but not III
   E. blocks I and III, but not II
   F. blocks I, II, and III

5. What is the output of the following Java program?

   ```java
   public class Problem5 {
       public static void method1() {
           System.out.print("X ");
       }
       public static void method2() {
           System.out.print("Y ");
       }
       public static void main(String[] args) {
           System.out.print("Z");
           method2();
       }
   }
   ```

   A. X Y Z
   B. X Y Z Y
   C. Z Y
   D. Y Z
   E. none of the above
6. The following Java program includes a number of syntax errors.

```java
public class Foo
    public static void B {
        System.out.println "I need some Java"
    }
    public static main(String[] args) {
        B()
    }
}
```

Find and fix all of them, writing the corrected version in the space below.
7. We need a Java program that will produce the following 8 lines of output:

-3-
-2-
-1-
Wait! Start again!
-3-
-2-
-1-
Blastoff!

Complete the template given below to create a program that will produce this output. In addition to the main method, your program should have one additional method, and you should employ appropriate procedural decomposition as discussed in lecture.

```java
public class Countdown {
    public static void main(String[] args) {

    }
    // Put your additional method below.
}
```