1. First, go over the logical operators, and find out if there are questions on these.

2. Show how to convert this conditional logic from “if” to “switch”:
   ```cpp
   if(a == 1)
       cout << "1";
   else if(a == 2)
       cout << "2";
   else if(a == 3)
       cout << "3";
   else
       cout << "0";
   if(a==5 || a==10)
       cout << "either 5 or 10";
   ```

3. What does this code do? Explain why n will not be 4 after this because of short circuit.
   ```cpp
   int n = 5;
   if((n = 3) || (n = 4))
       cout << "a";
   else if(n == 3)
       cout << "b";
   if(n == 4 || n == 5)
       cout << "c";
   ```

4. Write a while loop that will print out every multiple of 15 less than 158, and then write the for loop equivalent.

5. What differences do you notice between for loops and while loops? When could one be better to use than the other?

6. Is there an application for either loop in Assignment 3?