Homework 4 help

1. 
   a. Declare two counters, one for counting from 100 to 1000 (counter1) and the other for printing ten numbers per line (counter2).
   b. Set up a while loop that runs as long as counter1 is less than or equal to 1000.
   c. Inside the while loop, set up an if statement such that it prints counter1 and increases counter2 by 1 if it is divisible by 5 and 6.
   d. After the previous if statement, set up another if statement that will print cout << endl; and reset counter2 to 0 if counter2 is equal to 10.

2. 
   a. Declare an integer with a small number, use a while loop and make it run as long as n^2 is < 12000.
   b. Declare an integer with a big number, use a while loop and make it run as long as n^3 > 12000.

3. 
   ```cpp
   int x;
   int numofnegs = 0;
   int numofpos = 0;
   int total = 0;
   int sum = 0;
   int average = 0;

   cin >> x;
   while(x != 0)
   {
      if( x < 0) numofnegs = numofnegs + 1;
      //Do the same and similar statements for positive, total and sum.
      ...
      ...
      ...
   }
   //average is equal to sum/total.
   ```