

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.

```
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.
```