## Problem of the Week-2: Number of Divisors

Lat $a, b, c$ be positive integers greater than 50 such that one of them has an odd number of positive divisors and the other two each has exactly 3 positive divisors. If $a+b=c$, find the values of $a, b, c$ such that $c$ is as small as possible.

As always, show your work, fully explain and justify your answer.

Posting Date 1/26/13. Submit solutions to Noah Aydin, Mathematics Department, RBH 319 (e-mail or hard-copy, but hard copy submissions must include a time stamp) by 4 pm on $2 / 8 / 13$.

