1067-11-2396 Elizabeth McCaslin* (eam013@mcdaniel.edu), 13579 Deer Brook Court, Mount Airy, MD 21771, and Fenghao Wang. Improving Abundancy Bounds.
We will examine the percentage of integers $n$ such that $\frac{\sigma(n)}{n}$ is at least $x$, where $\sigma(n)$ is the sum of all positive divisors of $n$. It is known that the bounds for the solutions to $\frac{\sigma(n)}{n} \geq 2$ are 0.2474 and 0.2480 ; however, the previous best known bounds for some $x$ are much wider. We explore methods for improving these bounds. (Received September 23, 2010)

