Kenneth J. Prevot* (prevot@msudenver.edu), Department of Mathematics, Metropolitan State University of Denver, Denver, CO 80217-3362. *Some Notes on the boundary operator on the $n$-cube. Preliminary report.

Let $I^n = [0,1] \times [0,1] \times \ldots \times [0,1]$, the Cartesian product of $n$ unit intervals, denote the standard $n$-cube. This paper discusses certain aspects of the boundary operator $\partial$ on $I^n$. A few basic formulas and some geometric results are presented with mention of relationships to elementary calculus and elementary number theory. This talk is expository in nature. (Received March 01, 2017)