1135-05-1095 Kristina Marotta* (kmarott@cedarcrest.edu), 927 Dorset Rd, Allentown, PA 18104, James Hammer (jmhammer@cedarcrest.edu), 100 College Dr, Allentown, PA 18104, and Joshua Harrington (jsharrin@cedarcrest.edu), 100 College Dr, Allentown, PA 18104. ( $a, b$ )-Sudoku Latin Squares Forbidding Distance One.
Let $n$ be a positive integer and let $(a, b)$ be an ordered pair such that $a b=n$. An $(a, b)$-Sudoku Latin square is an $n \times n$ array partitioned into $a \times b$ regions in the natural way so that every row, column, and $a \times b$ region contains every symbol $\{1,2, \ldots, n\}$ exactly once. An $n \times n$ array has property K if no two adjacent cells, that is cells that share an edge, contain consecutive integers. We will investigate the necessary and sufficient conditions for the existence of $(a, b)$-Sudoku Latin squares that have property K. (Received September 19, 2017)

