

1135-VV-2056 **Xueyi Lei*** (leix@jay.washjeff.edu), 50 South Lincoln Street, Washington, PA 15301.
Construction and Completion of a Latin Square.

An $n \times n$ Latin square is an $n \times n$ array of n symbols, where each symbol occurs once in each row and column. We show several ways to construct a Latin square using permutations and the group structure of \mathbb{Z}_n . We also investigate the completion of several types of partial Latin squares using the Marriage Theorem. (Received September 25, 2017)