

1067-P1-322

**W D Wallis\*** ([wdwallis@siu.edu](mailto:wdwallis@siu.edu)), Department of Mathematics, Southern Illinois University - Carbondale, Carbondale, IL 62901-4408. *The 36Cube Puzzle.*

The 36Cube puzzle (made by Thinkfun) is based on  $6 \times 6$  Latin squares, and its solution seems to require the existence of an orthogonal pair of such squares; of course, no such pair exists. We shall point out the actual configuration required, and briefly indicate that there is a statistical application of its existence. (Received August 22, 2010)