

MATHEMATICS

The $n + k$ kings problem. R. DOUGLAS CHATHAM, Department of Mathematics and Physics, Morehead State University, Morehead KY 40351.

The “ n -kings problem” asks for arrangements of n pieces on an n -by- n board so that no two pieces attack each other as kings or as rooks. We add pawns to the problem and show that for $n > k + 4$, we can place k pawns and $n+k$ kings on an n -by- n board so that no two kings attack each other as kings or as rooks.