1096-J5-120

Raymond N Greenwell* (matrng@hofstra.edu), Department of Mathematics, 103 Hofstra University, Hempstead, NY 11549, and Daniel E Seabold, Department of Mathematics, 103 Hofstra University, Hempstead, NY 11549. The Stable Marriage Problem in the Classroom.

The Gale-Shapley Stable Marriage Theorem is a fascinating result from 20th century mathematics that has practical applications to labor markets and school admissions and yet is accessible to students at the secondary and undergraduate level. We describe a classroom activity that demonstrates the Gale-Shapley algorithm through student participation. We will carry out the activity with the audience to show how we use this in a liberal arts mathematics class. (Received August 01, 2013)