



MATH HOUR @

UNIVERSITY OF WASHINGTON

A MATH LECTURE FOR GRADES 6-10

www.math.washington.edu/~mathcircle/mathhour



Professor Anna Karlin
University of Washington
Computer Science

Stable Matching

Abstract: In 2012, a Nobel Prize in Economics was given in part for the solution to the following problem: Say we have 100 boys and 100 girls and we want to make them into couples. Everyone makes a list of their ideal partners from 1 to 100 in order of most favorite to least favorite. The question now is whether there is a way to match everyone up so that the matching is "stable": This means that there is no couple (A,B) in our matching where girl A prefers some other boy to B and boy B prefers some other girl to A. In this Math Hour, you will learn about an efficient algorithm for solving this problem and the fascinating properties of stable matchings.

May 15, 2016
Sunday, 1-2pm

UW Seattle campus

Gowen Hall 301