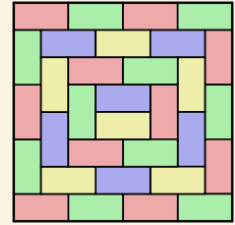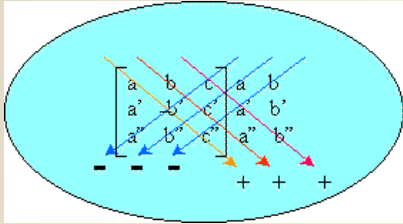# MONTHLY MATH HOUR AT UW
An hour of fun math for middle school students

Domino tilings
and
determinants

Professor Jon Brundan
University of Oregon
Department of Mathematics

There are two ways to tile a 2x2 board with 2x1 tiles (= or ||). There are thirty six ways to tile a 4x4 board with 2x1 tiles (you can check this by listing all the possibilities!).

Question: How many ways are there to tile an 8x8 board with 2x1 tiles?

I'll explain a neat way to work this out using some techniques from graph theory and linear algebra --- though no knowledge of that will be assumed in advance. If there's time I'll talk about some other related combinatorial/counting problems.

UW Seattle campus, Savery Hall, Room 260
Sunday, March 11th, 1-2pm

This event is part of a series.

Further information, campus maps
and driving directions can be found at
www.math.washington.edu/~mathcircle/mathhour