Invariants

You are given a standard chessboard with two opposite corners removed, leaving 62 squares of black and white. Is it possible to cover the chessboard with dominos, where each domino occupies two adjacent squares? Or suppose that the numbers 1,2,...,20 are written on a blackboard. You are allowed to erase two of these numbers and add one new number to the list which is the sum of the erased numbers minus one. What number will be left after doing this 19 times? We will answer both of these questions (and more) using the language of mathematical **invariants**.

Come join us virtually at the:

EVANSTON MATH CIRCLE
Saturday, February 27, 11-12:30

The session will be held live via Zoom. A link to the meeting will be sent out to those on our email list the morning of the event.

Math Circle is geared towards eager middle-school students, but students of other ages and backgrounds are welcome as well. More information is available at http://www.math.northwestern.edu/~scanez/mathcircle/