Given 15 dots on a line,

. . . .

two players take turns placing an X through one of the dots. The first player to mark off a dot so that three consecutive dots are marked is the winner. Which player should win - the one who goes first or the one who goes second?
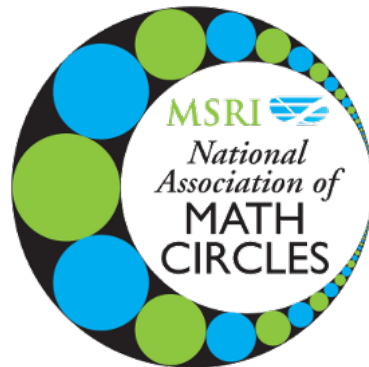
Who can attend?
All students in grade 6-8 with an interest in math and the ability to do basic algebraic manipulations, at about the level of algebra 1.

For current information check our website www.math.uci.edu/~ mathcircle or contact Dr. Pantano at apantano@uci.edu

MSRI
National Association of MATH CIRCLES

MAA
MATHEMATICAL ASSOCIATION OF AMERICA

Afternoon of mathematical explorations to expand your mathematical horizons

UCIrvine | DEPARTMENT OF MATHEMATICS

The UCI MATH CIRCLE for MS students

A free program for mathematically inclined students designed to enhance their appreciation of mathematics and teach interesting mathematics typically not covered in the traditional school curriculum

MATHCIRCLE at UCI

Pick a number. Multiply by 3. If the result is odd, add 25. If it is even, add 34. The new result will be even. Divide it by 2. Add 11. Now multiply by 6. Add up the digits in your answer. If the number you obtain contains more than one digit, add the digits again. Continue doing so until you get a one digit result. Your answer will be 6. Why?
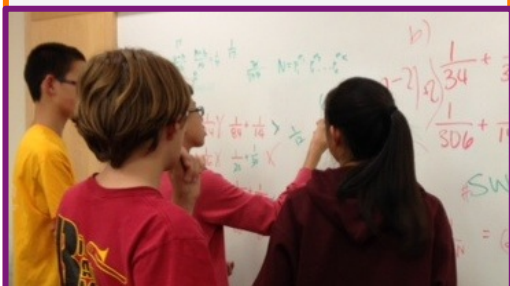
In a rather unique way this program wants to give students a first-hand experience of **what doing math is all about**. During the meetings, students are actively engaged in solving challenging open-ended problems, and are encouraged to formulate conjectures and write sound logical arguments to support them. The goal is not speed or accuracy, but developing depth and appreciation.

During the 2014-15 academic year, the UCI Math School for MS Students will meet 5 times every quarter on the UCI campus (typically on Monday 6.30-8pm).
For directions and an up-to-date schedule, please visit the website *www.math.uci.edu/~mathcircle*
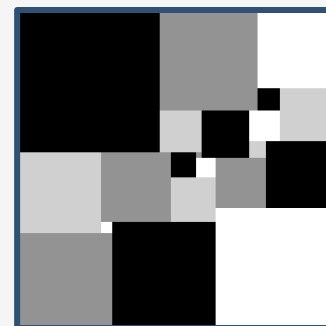
Show that for n ≥ 6 a square can be dissected into n smaller squares, not necessarily all of the same size.