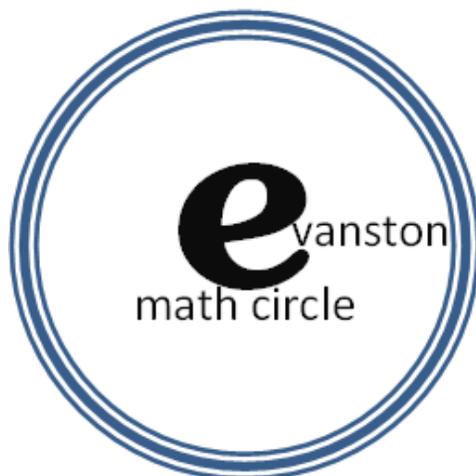## Sharing Cake

If two hungry children want to share some cake, the algorithm they use is "I cut, you choose." That way, the cutter will slice the cake into two pieces that they perceive to be equal (otherwise they would get the smaller piece). The chooser will take the piece that they perceive to be larger (or choose at random if they think the two are the same size). Neither child will feel as though they got less than a fair share.

What if three people want to share the cake? Is there a fair way to split it? We'll discuss some of the mathematics behind this problem! Come join as us at the

EVANSTON MATH CIRCLE
Saturday, October 20

Northwestern University
Lunt Hall Room 218, 11:00 AM to 12:30pm

Math Circle is geared towards middle- and beginning high-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/