# Walking Around Randomly

Suppose you're walking, but each step you take is determined by the flip of a coin: if the coin lands heads, you take one step forward, but if it's tails, you take on step back. What is the probability of having moved 5 steps forward overall after 10 coin flips? How far away on average are you from where you started? What does this have to do with carnival games? We'll explore the mathematics behind these questions! Come join us at the:

EVANSTON MATH CIRCLE
Saturday, December 15
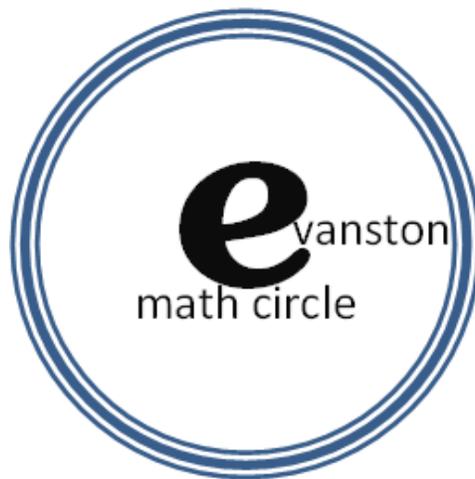
Northwestern University
Lunt Hall Room 218, 11:00 AM to 12:30pm

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/