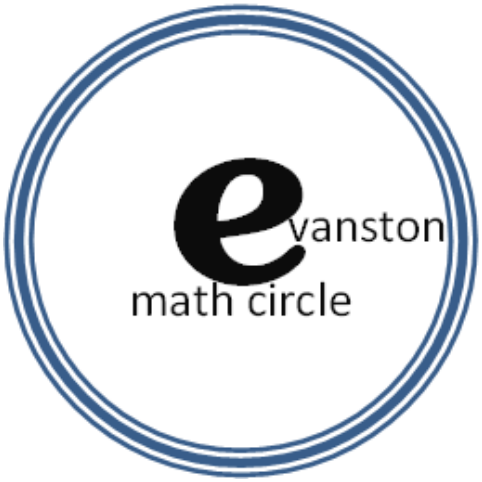
Partitioning Numbers

The number 7 can be written as the sum of positive whole numbers in multiple ways:

$$7 = 6+1 = 5+2 = 5+1+1 = 4+3 = 4+2+1 \text{ and so on.}$$

Among these ways, there are three (4+3, 4+2+1, and 4+1+1+1) which have 4 as the largest number occurring, and there are three (4+1+1+1, 3+2+1+1, and 2+2+2+1) which consist of 4 numbers overall. Is it a coincidence that there are three of each of these types? What if we use a number different than 7? We'll explore some of the math behind these questions and learn some things about the notion of an integer partition along the way! Come join us at the:

EVANSTON MATH CIRCLE
Saturday, February 16



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/