

# Counting with Pascal

Pascal's Triangle is a figure whose first few rows look like

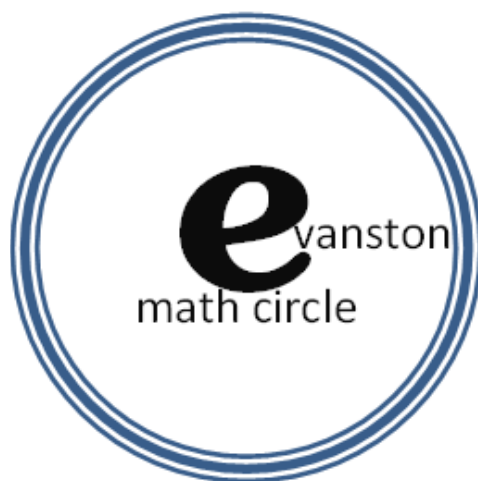
$$\begin{array}{ccccccc} & & & & 1 & & & & \\ & & & & & & 1 & & \\ & & & 1 & & 1 & & & \\ & & 1 & & 2 & & 1 & & \\ & 1 & & 3 & & 3 & & 1 & \end{array}$$

The pattern is that each entry in a row is the sum of the two numbers directly above (to the left and to the right) it. The fifth row looks like

$$1 \quad 4 \quad 6 \quad 4 \quad 1$$

and so on. We'll dive into some of the math hidden within Pascal's Triangle, including some interesting formulas to which it gives rise! Come join us at the

## EVANSTON MATH CIRCLE Saturday, May 19



**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/>

