Arthur T. Benjamin and Jacob N. Scott *Third and Fourth Binomial Coefficients*, Fibonacci Quart. **49** (2011), no. 2, 99–101

Abstract

While formulas for the sums of kth binomial coefficients can be shown inductively or algebraically, these proofs give little insight into the combinatorics involved. We prove formulas for the sums of 3rd and 4th binomial coefficients via purely combinatorial arguments.