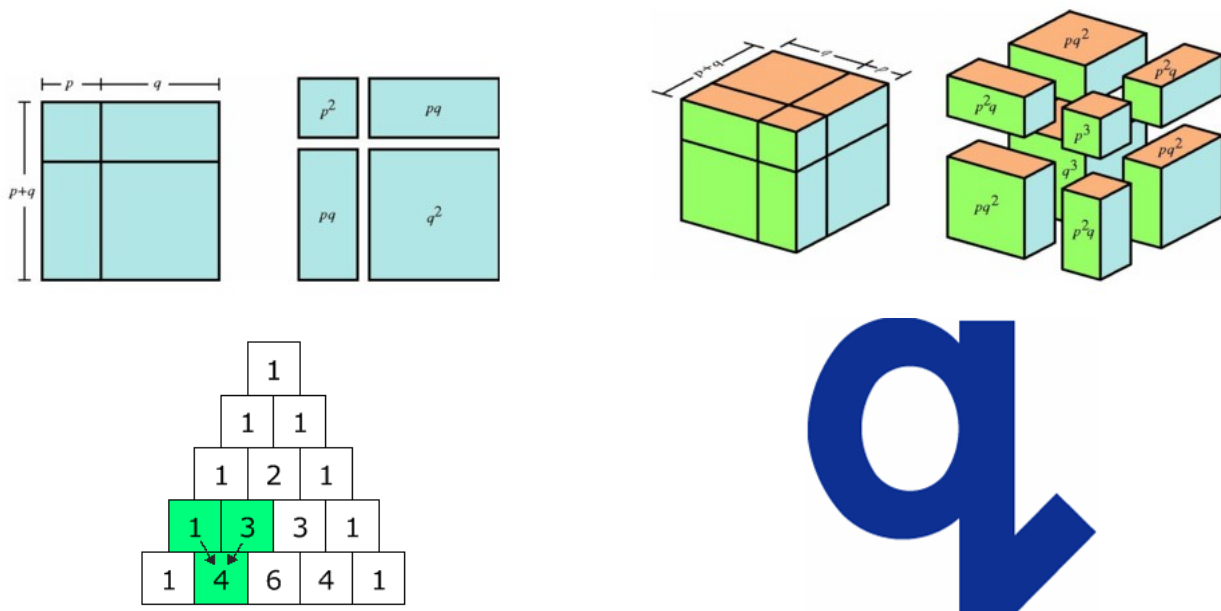


Join us for **High School Math Night**, now
combined with the **Madison Math Circle**

Monday, October 1
6:00pm, B223 Van Vleck Hall
UW-Madison Campus.

Prof. Richard Askey will speak on
**Counting: to and then beyond the
binomial theorem**



How many ways can zeros and ones be put into n places? It is easy to see this is 2^n . It is also easy to show that there are $n!$ ways of ordering n different objects. There are problems which go beyond these two. How many ways can k zeros and $n - k$ ones be put into n places? How many inversions are there in the $n!$ ways of ordering the numbers $1, 2, \dots, n$. [123 has no inversions, 132 has one, 312 has two, 321 has three]. These will lead us to what has been called “The world of q ”.

► **FREE PIZZA** will be served ◀

For more info, google “Madison Math Circle” and go to the [Uwmathwiki](#).