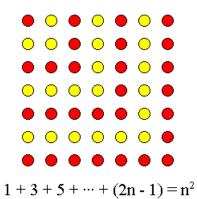
Proofs Without Words

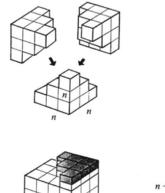
Tanya Khovanova

 $March\ 31,\ 2014$

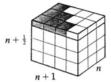
Sum of Odd Numbers



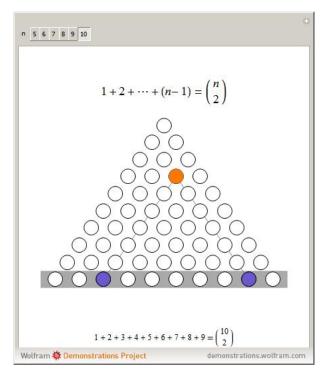
Sum of Squares



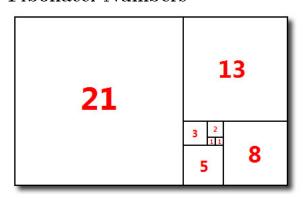




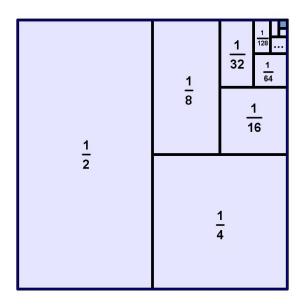
n choose 2

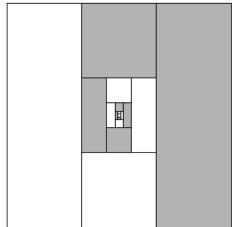


Fibonacci Numbers



Infinite series





$$\frac{1}{2} = \sum_{i=1}^{\infty} \frac{1}{3^i} = \frac{1}{3} + \frac{1}{3^2} + \frac{1}{3^3} + \frac{1}{3^4} + \frac{1}{3^5} + \dots$$

$$\frac{1}{4} + \left(\frac{1}{4}\right)^2 + \left(\frac{1}{4}\right)^3 + \dots = \frac{1}{3}$$

$$\frac{1}{64}$$

$$\frac{1}{16}$$

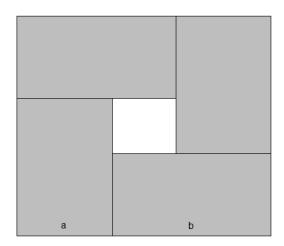
$$\frac{1}{4}$$

$$\frac{1}{4}$$

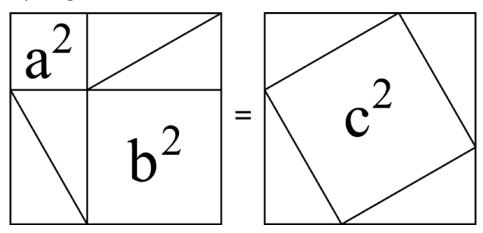
$$\frac{1}{4}$$

Inequalities

$$\frac{a+b}{2}\!\ge\!\sqrt{ab}$$



Pythagorian Theorem



Domino Tilings

