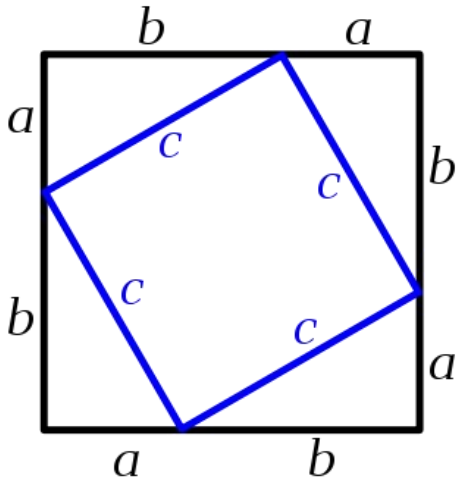
More proof exercises

- If n+1 balls are distributed among n bins prove that at least one bin has more than 1 ball

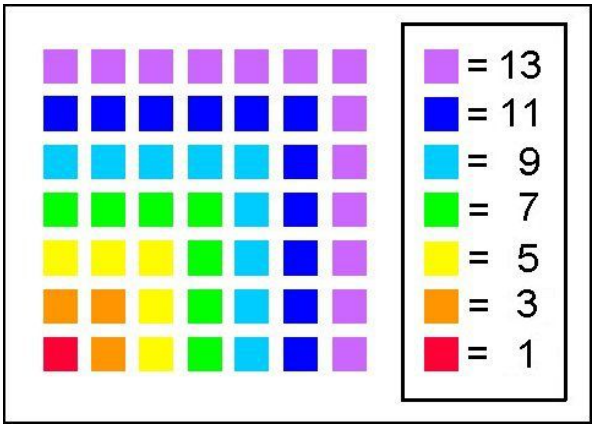
Meaningful diagrams

- Pythagoras



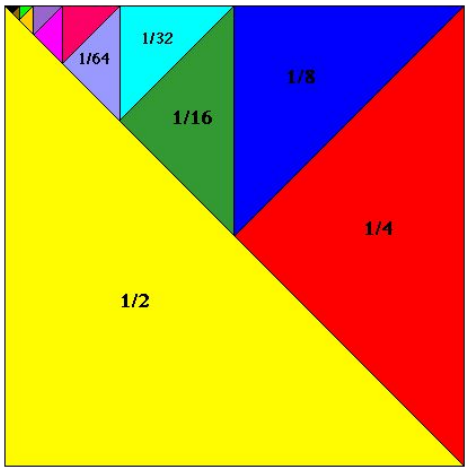
Meaningful diagrams - 2

- Sum of an arithmetic series (from http://www.tonydunford.com/images/math-and-geometry/sum-of-number-series/SumOfOdd.jpg)



Meaningful diagrams - 3

- Sum of a geometric series (from http://math.rice.edu/~lanius/Lessons/Series/one.gif)



Meaningful diagrams - 4

- **1/4 + 1/16 + 1/64 + 1/256 + ... = 1/3**

  (from http://www.billthelizard.com/2009/07/six-visual-proofs_25.html)