

## Archimedes puzzle (200 BC) Glass

Archimedes was a Greek mathematician. He had many exciting ideas. Among others he calculated how many grains of sand it takes to fill the universe. He arrived at the number  $8 \cdot 10^{63}$ , the digit 8 followed by 63 zeros.

In 2003, math historians discovered long lost information on the *Stomachion of Archimedes*. On an ancient parchment is described a puzzle containing combinatorics. Combinatorics is a field of math dealing with the number of ways a given problem can be solved. The goal of the Stomachion is to determine in how many ways the 14 pieces can be put together to make a square. In 2003, four mathematicians determined that the number is 17152.