List of defeated (by me) problems from Arnold's list of problems for children (mathematicians) from 5 to 15 (link)

No 1-7

- ☑ Book cost
- ☑ Cork cost
- ☑ One and a half brick
- ☑ Wine and tea
- ☑ Two old ladies
- ☑ Right-angled triangle
- ☑ Vasya's family

No 8-14

- ☑ Victoria Regia flower
- ☑ Wolf, a goat and a cabbage
- ☑ Climbing snail
- ☑ Polar Bear
- ☐ Tide
- ☑ Two volumes of Pushkin
- ☐ Two body views

No 15-21

- ☐ Breaking 64
- ☑ Domino's bridge
- ☑ Fly between cyclists
- ☑ Domino on a chessboard
- ☐ Caterpillar on the corner
- ☑ Two vessels
- ☑ Heads and legs

No 22-28

☐ Equilateral triangles

☐ Cube sections

☐ Line through the centre of a cube

☐ Plane between two balls in cone

☐ Projection of France

☑ $p \mid 2^{p-1} - 1$ for p prime

☐ Needle thrown

No 29-35

☐ Platonic solids

☐ Dodecahedron and five cubes

☐ Cube interior

☐ Symmetries of Platonic solids

☐ Colouring a cube

☑ Permutations

☐ Cube diagonals

No 36-42

☐ Divisible of cubes

☐ Divisible of 5 and 7 powers

☐ Calculate sum with small error

☐ Cutting and splicing polygons

☐ Parallelogram on squared paper

☐ More on parallelogram on squared paper

☐ Parallelepipeds in cubed space

No 43-49

- ☐ The rabbit numbers
- ☐ Catalan numbers
- ☐ A cup tournament
- ☐ Trees
- ☐ Snake permutations
- ☐ Snakes and tangent
- ☐ Co-tangent

No 50-56

- ☐ Euler identity
- ☐ Sum of inverse squares
- ☐ Random vectors and circle
- ☐ Ratio of rabbits
- ☐ Infinite continued fraction
- ☐ Hidden polynomials
- ☐ Roots of unity

No 57-63

- ☐ Draw a curve
- ☐ Sine power integral
- ☐ Power integral
- ☐ Triangle on sphere
- ☐ Rolling circle
- ☐ Two pupils with the same birthdays
- ☐ Mirages

No 64-70

- ☐ Minimal perimeter
- ☐ Mean potential
- ☐ Approximation of log2
- ☐ More approximations of logs
- ☐ Approximation of log7
- ☐ Even more approximations of logs
- ☐ Natural logarithm approximation

No 71-77

- ☐ Powers of two
- ☐ Powers of three
- ☐ The recurrence theorem
- ☐ Dense sequence in torus
- ☐ Periodicity on torus
- ☐ More on torus dense sequences
- ☐ Even more on torus dense sequences