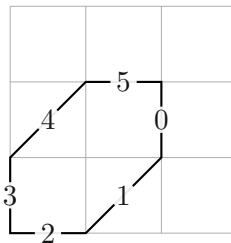
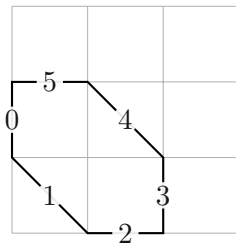


Gluings things from squares

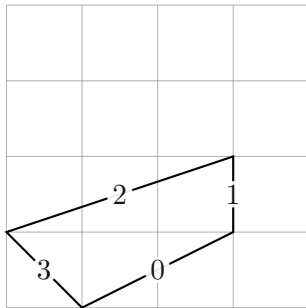
Imagine a gluing of squares

Squares are congruent, and the gluing is *edge-to-edge*

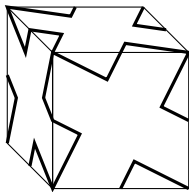
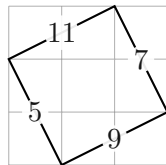
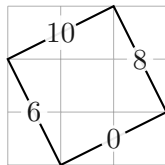
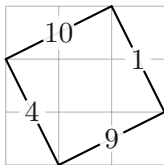
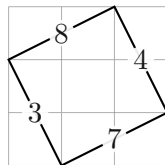
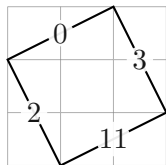
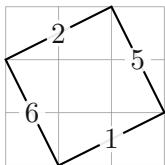
Then the gluing can be drawn on the grid



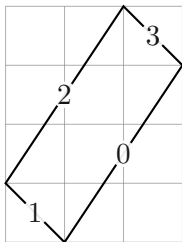
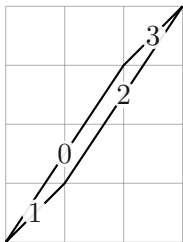
You can glue this from squares



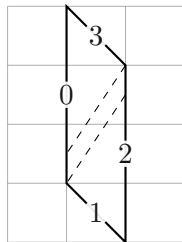
You can glue this from squares



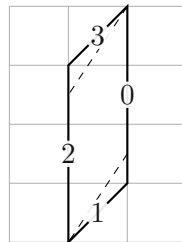
Sometimes it's uncertain what is glued



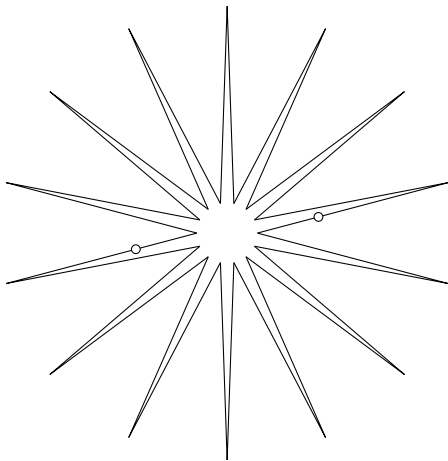
(a)



(b)



Many things can be glued from a single polygon



$2n$ vertices, $2^{\Omega(n)}$ polyhedra.

In our presentation we find out that

- 1) There are $O(n^{36})$ polyhedra that can be glued from at most n squares;
- 2) There are $\Omega(n^3)$ polyhedra that can be glued from at most n squares;
- 3) There are $O(n^3)$ doubly covered polygons that can be glued from at most n squares;