

FILL THE GAP!

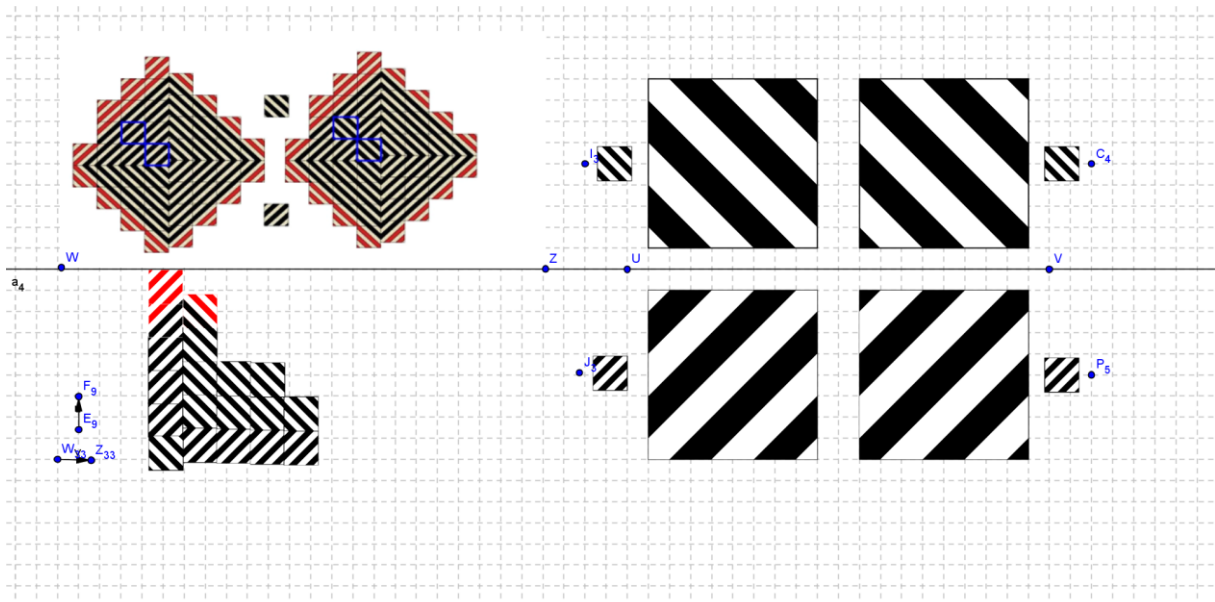
GeoGebra Action Package (GAP) for the ADVENTURES ON PAPER exercise book

Slavik Jablan, Ljiljana Radovic: Patterns, Symmetry, Modularity and Tile Games

Exercise1: Practice Frieze symmetries! (JablanRadovic1_Stettner1.ggb)

This GeoGebra application helps you to study Frieze symmetries. You can apply different transformations on a scalene triangle. Symmetry axis, symmetry centers, vectors of translations and glide reflections are marked in every Frieze groups. Switching animation ON makes studying more enjoyable with the moving C vertex and the dynamic colors.

Exercise2: Construct labyrinths! (JablanRadovic2.ggb)



It is hard to believe that complex labyrinths can be constructed from only 2 kind of different coloring striped squares. Insert the image of the labyrinth in GeoGebra, switch on grid (for punctual construction) and construct the striped squares. Zoom out squares, and by copying and translation of the small squares and construct the labyrinth. (It is worth to construct the mirror image of the squares as well, because you can apply only translations later to construct the image).