

FILL THE GAP!

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

Jay Bonner: The Polygonal Technique in Islamic Geometric Design

Exercise: Semi-regular Archimedean tiling 4.8.8

First, draw a regular octagon and then the two squares. The 3 series of translation generates one row in the pattern. Then the series of translations of the complete row (the octagon and the square separately) will generate the full pattern.

By moving the points A and B, you can rotate the pattern and zoom in or out. You can also add a wide variety of vibrant colors to obtain many kinds of flamboyant tessellation.

Some examples:

