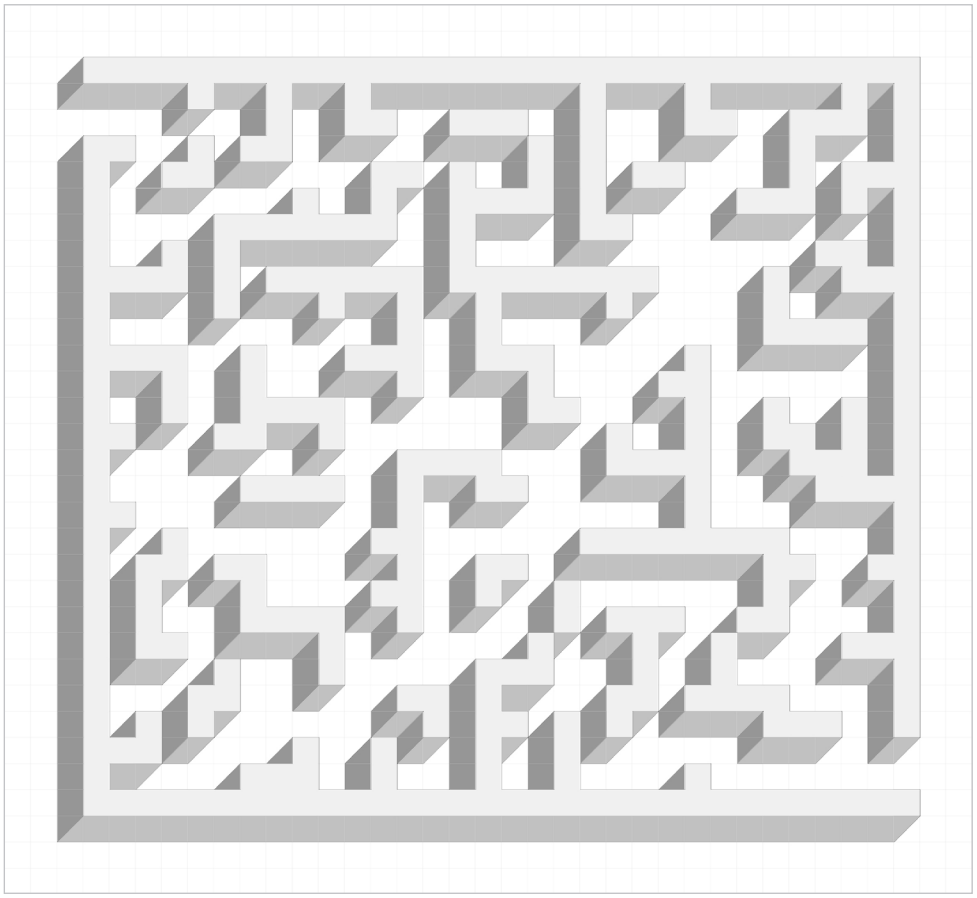
Draw a 3D maze! Oblique projection – Math and Art

Oblique drawing is an important skill in spatial visualization. Drawing 3D mazes is an engaging way to practice. Your students will work on figures from easy to difficult. They will be guided through a set of 3D cube drawings and an easy maze-drawing while practicing three values. After that they can create their own 3D maze at their own pace.

In this no-prep download you will get:

– a student handout (optimized for printing/projecting)
– an answer key
– blank graph paper for further drawing (for early finishers)
– a step-by-step guide

It is recommended that students have some introductory guided instruction on the basics of oblique projection before using the handouts.



Next three pages: handout optimized for printing

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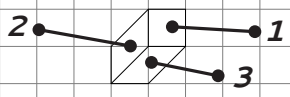
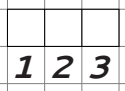
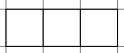
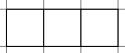
Draw a value scale of three values. You will use three different values to make your maze appear 3D.

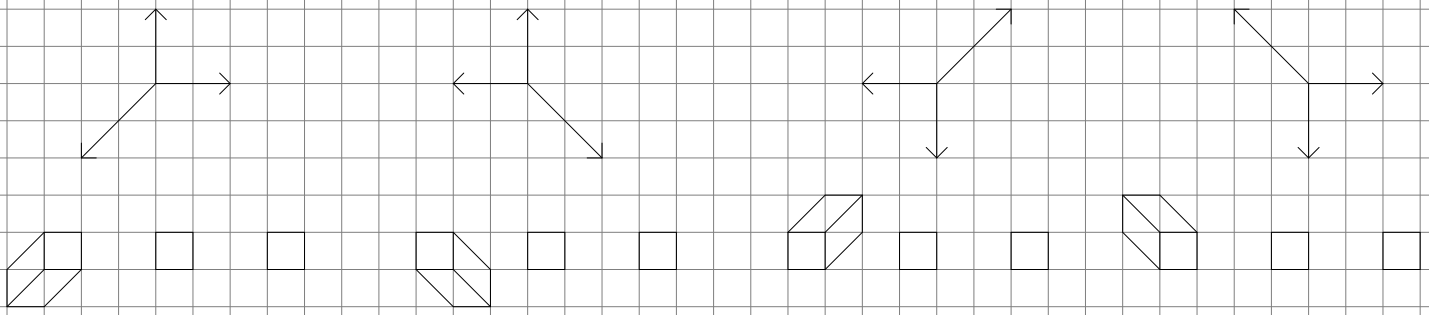




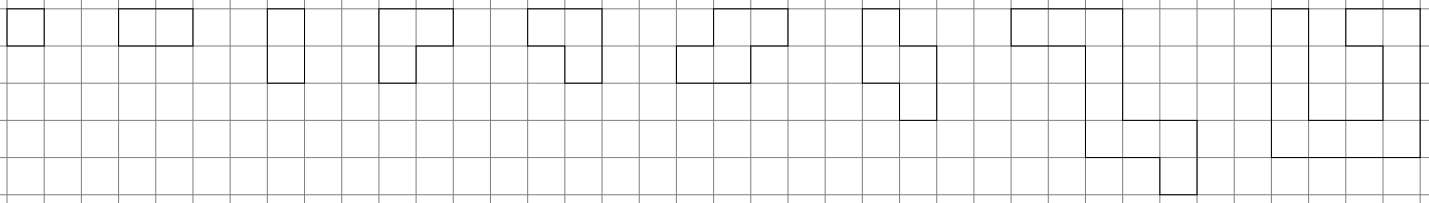




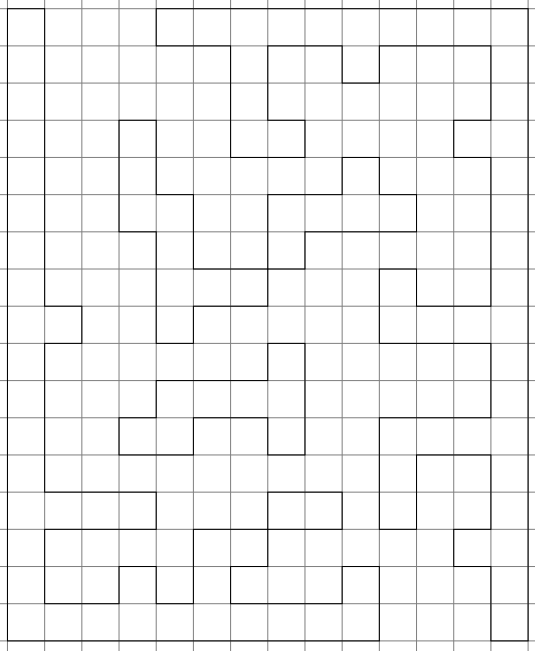
Practice oblique projection at different angles. Draw and shade the cubes.



Practice oblique projection at your favorite angle. Turn the 2D figures into 3D. Shade the cubes.



Practice oblique projection at your favorite angle. Turn the 2D maze into 3D. Shade it.



Now draw a maze on your own! First, sketch a maze in 2D and then turn it into 3D with using oblique projection and three values.

Next three pages: handout optimized for viewing/projecting

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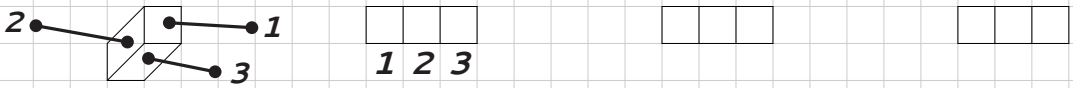
Draw a value scale of three values. You will use three different values to make your maze appear 3D.



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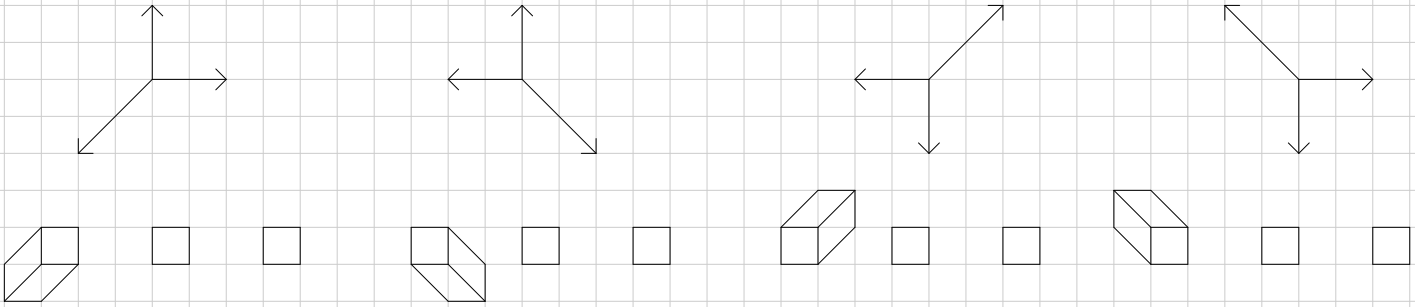

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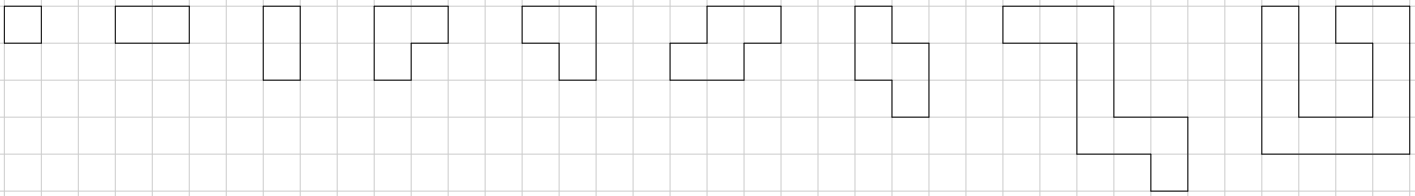

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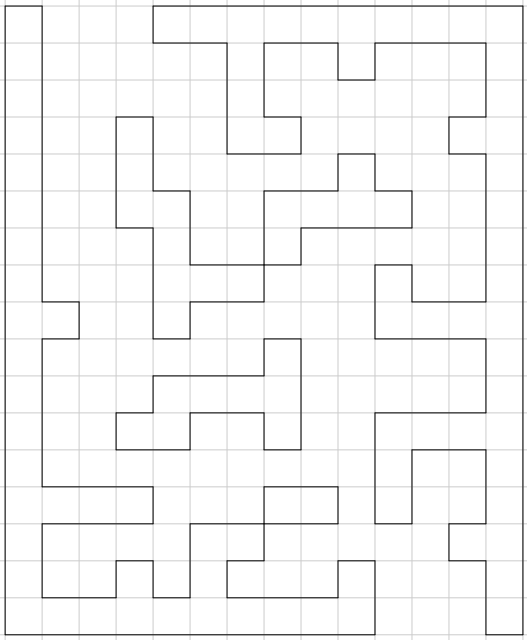

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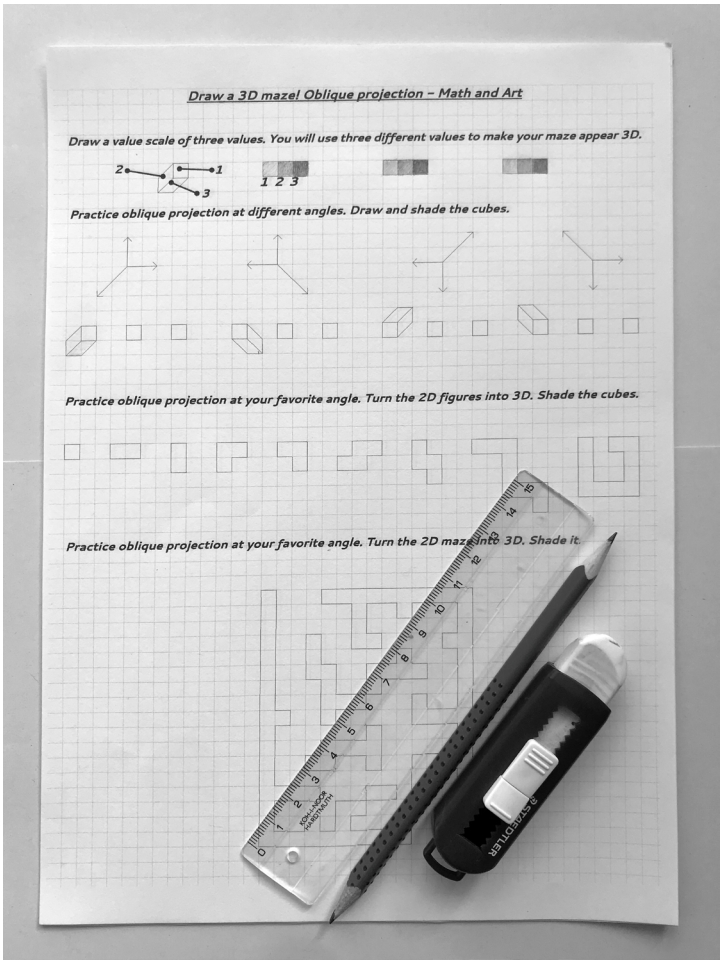
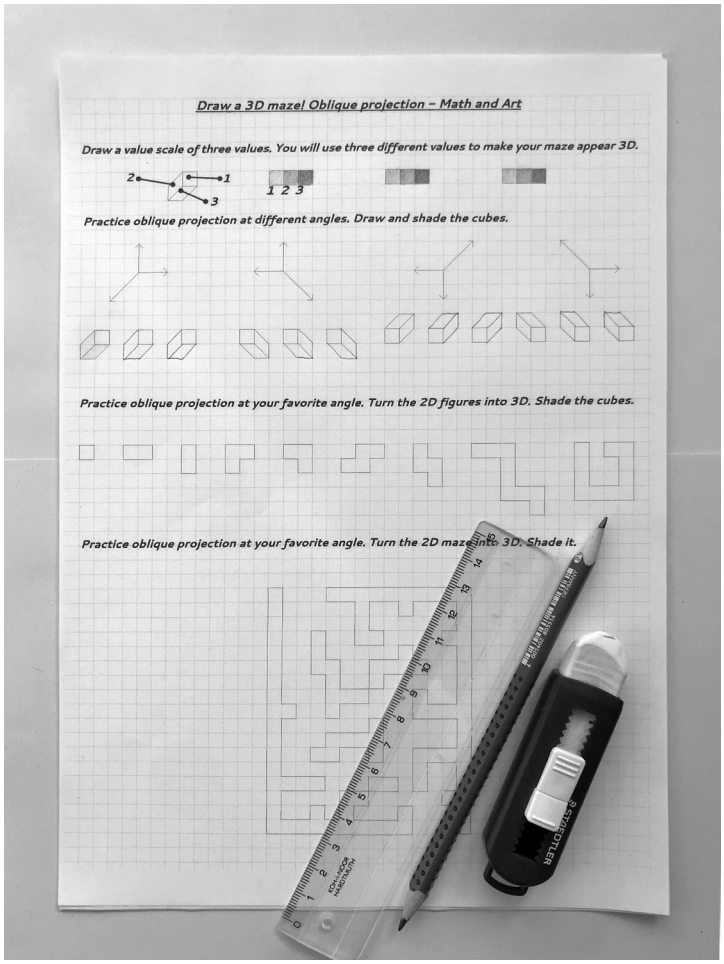
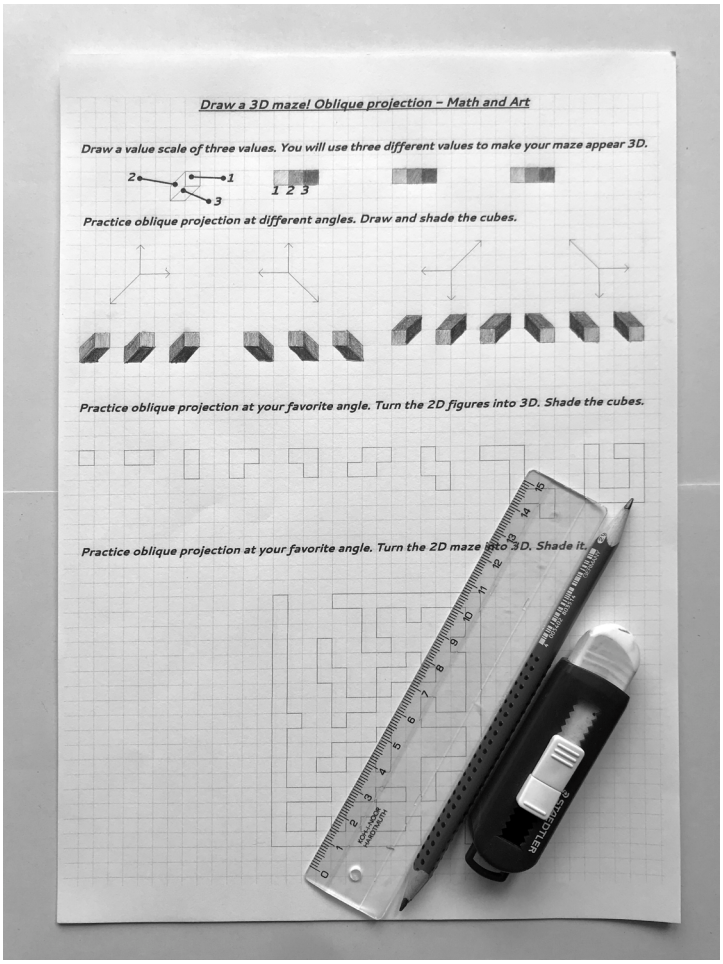
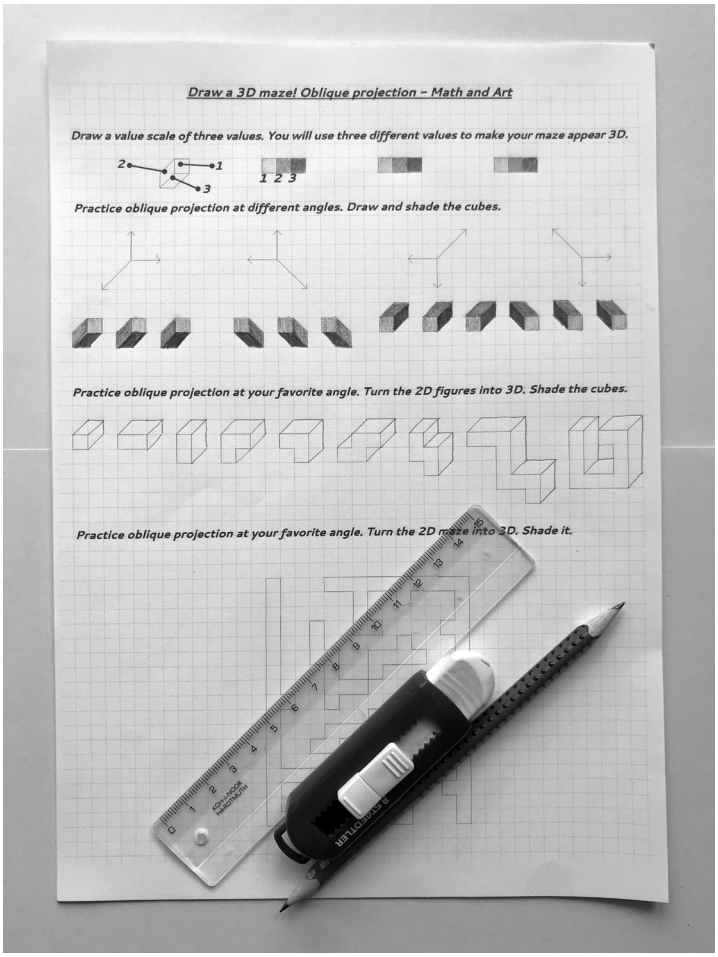
Step by step guide





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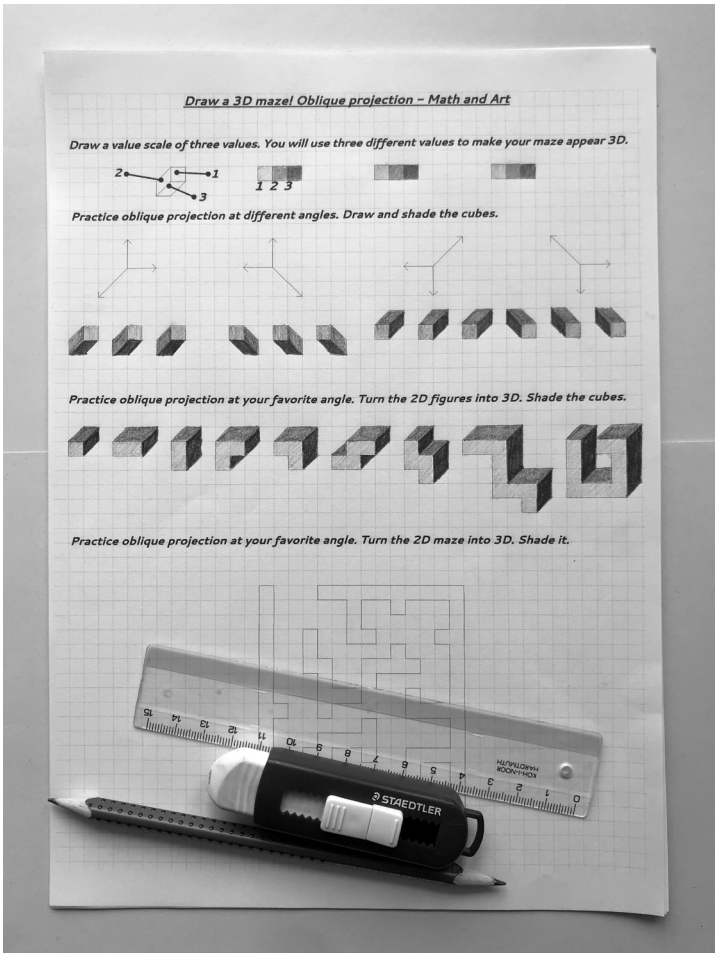
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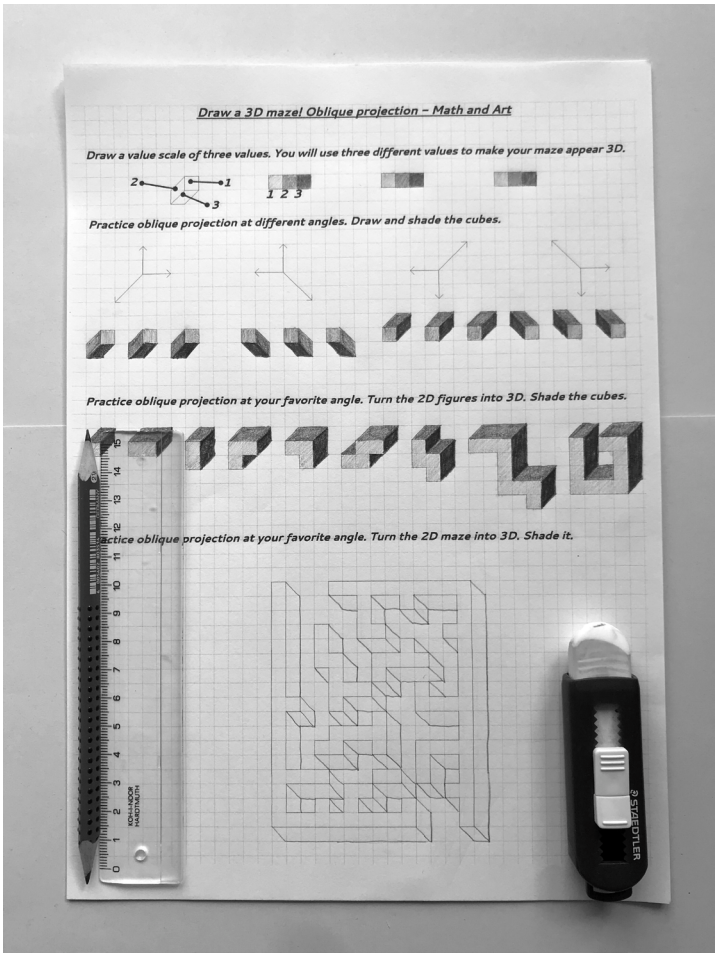
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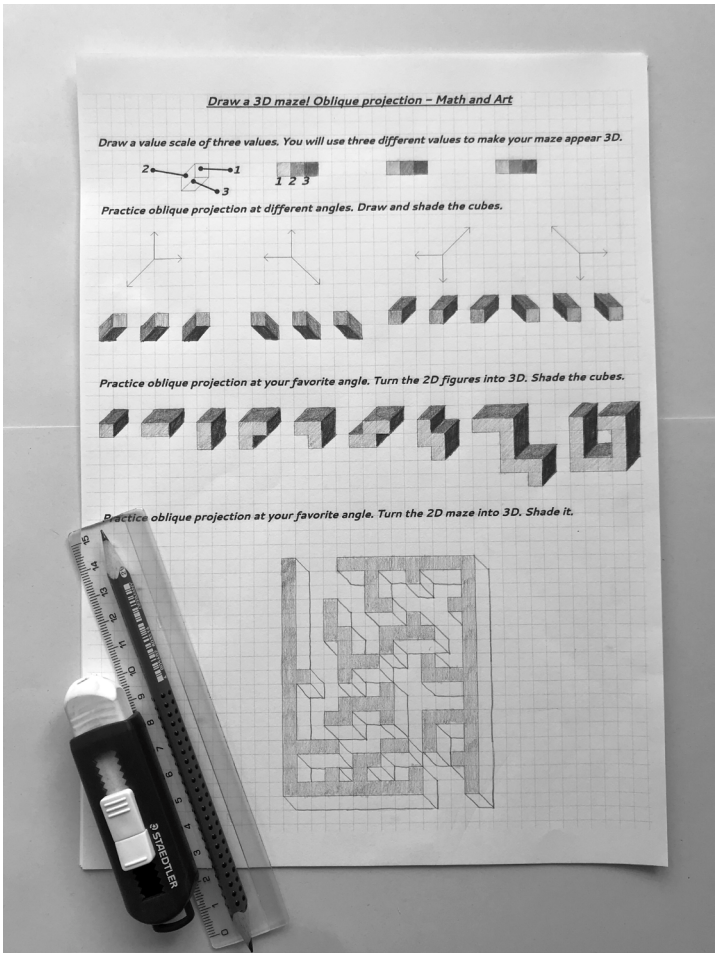
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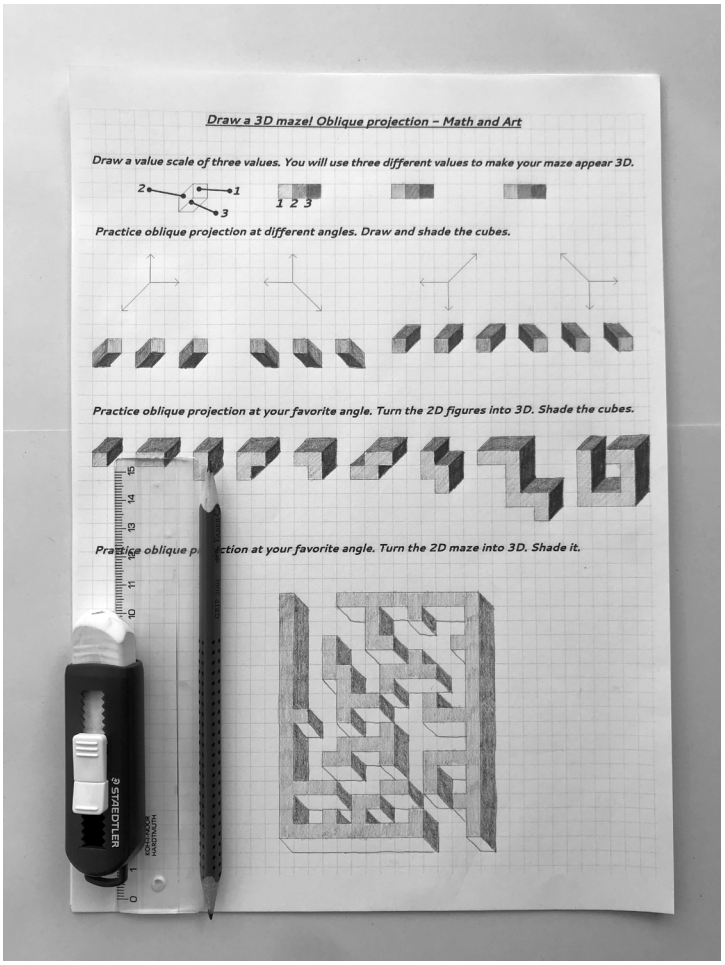
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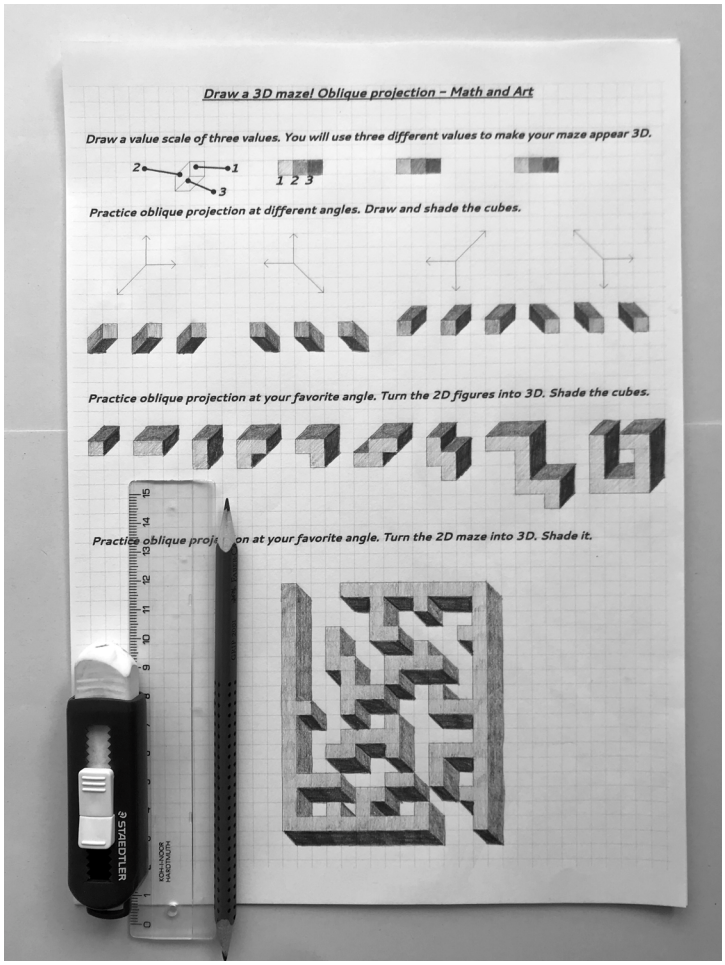
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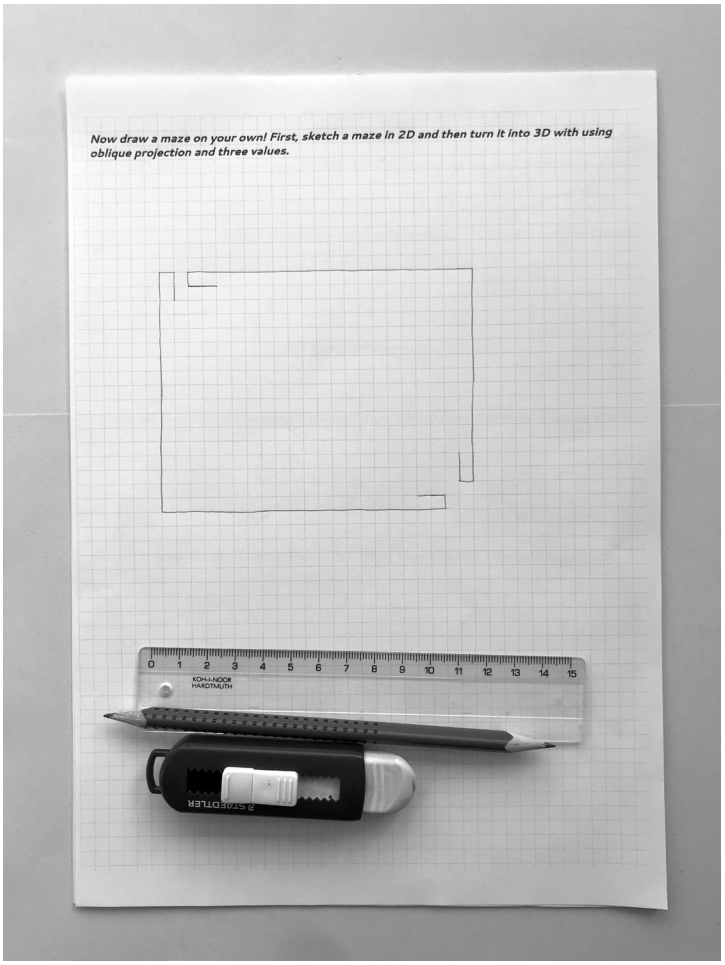
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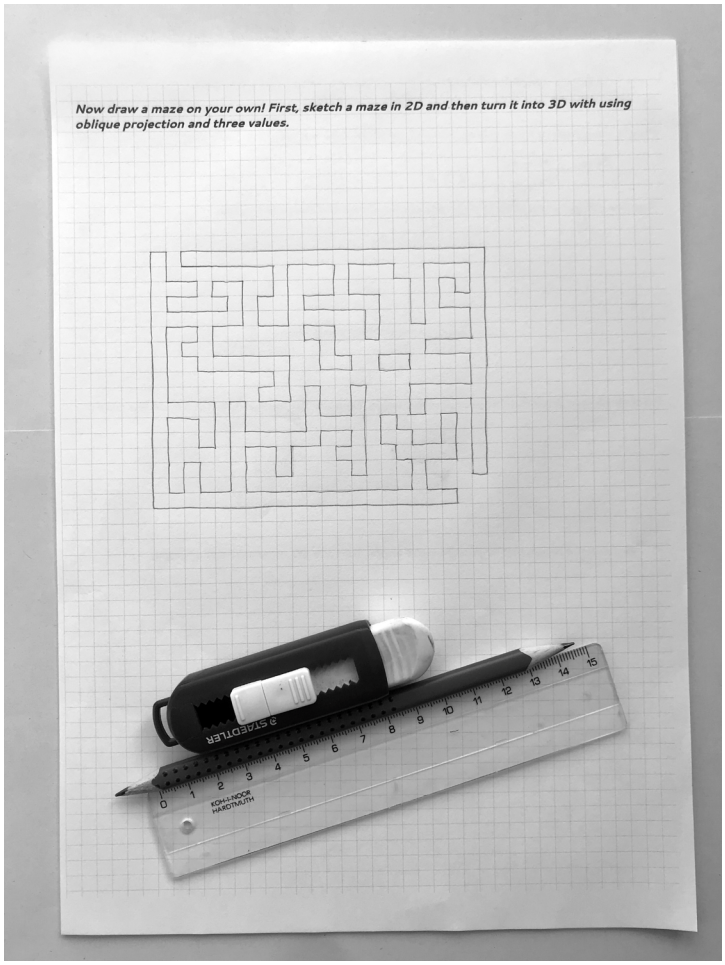
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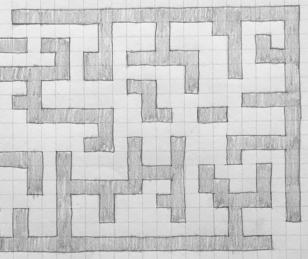

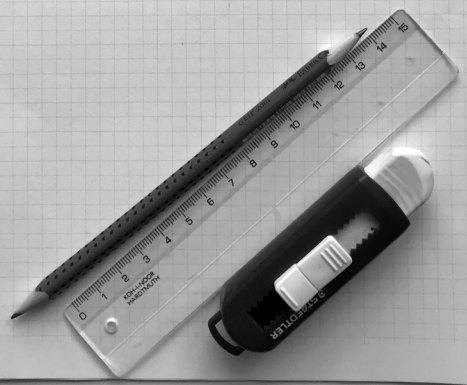

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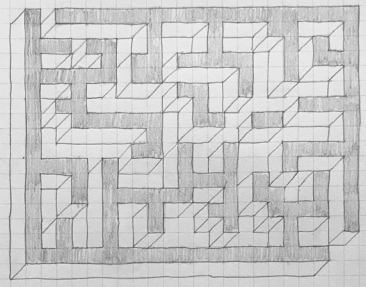

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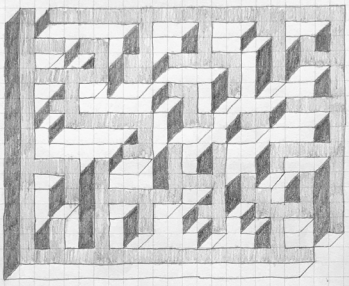

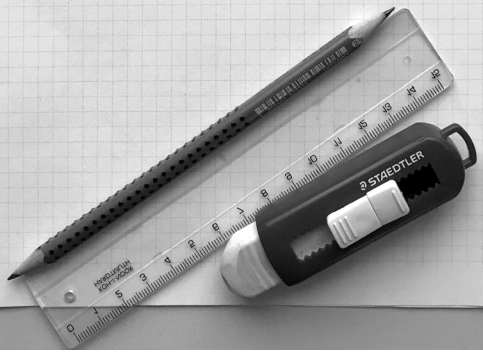

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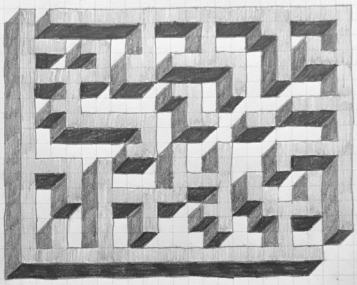

Answer key

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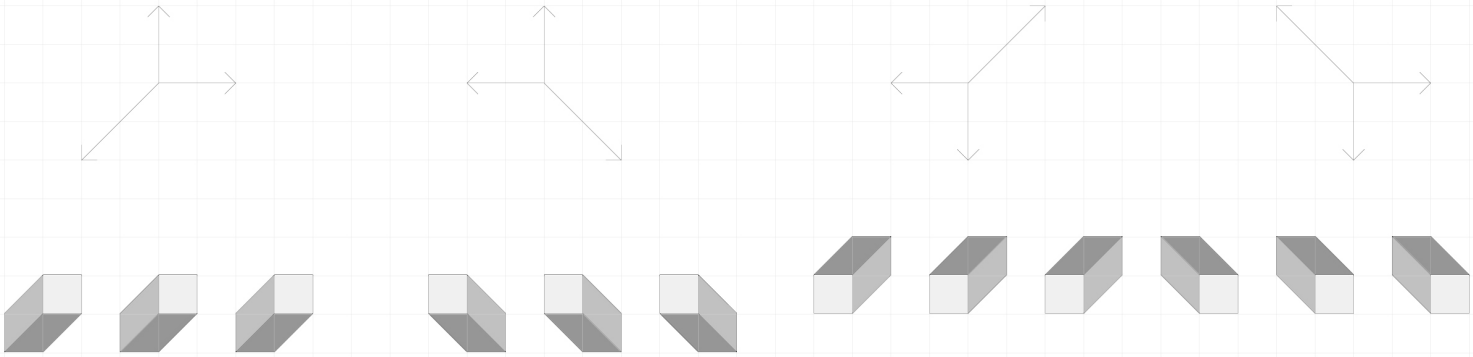

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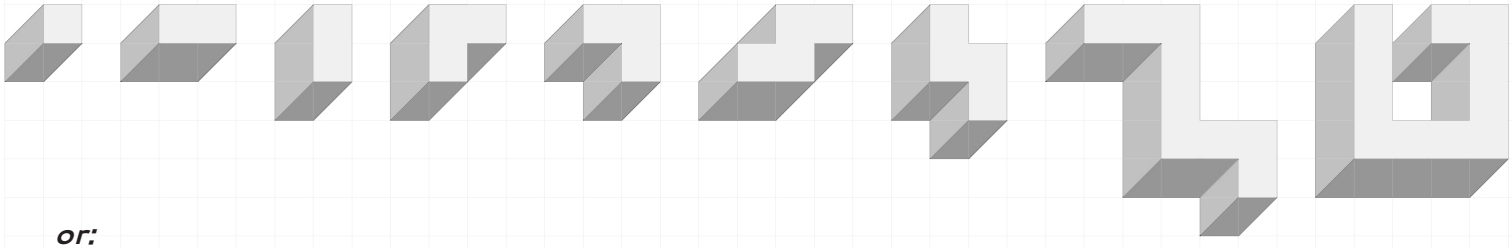

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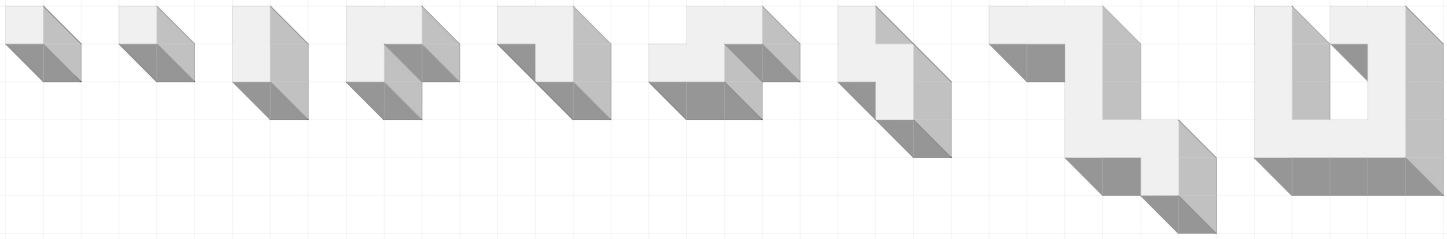

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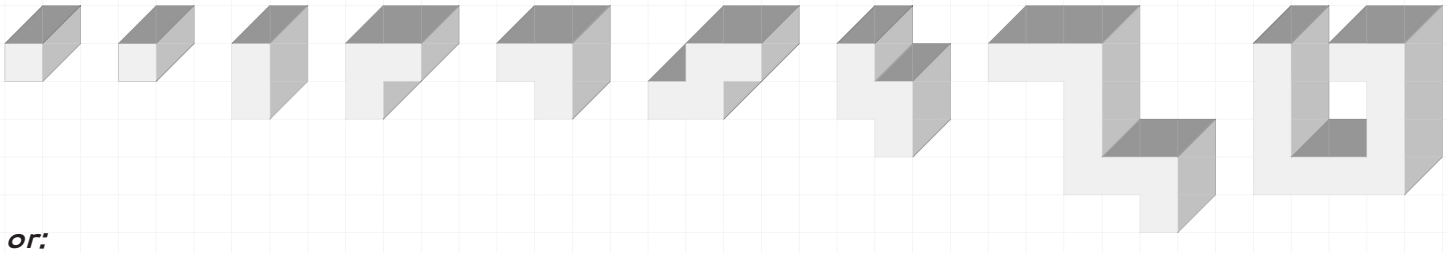

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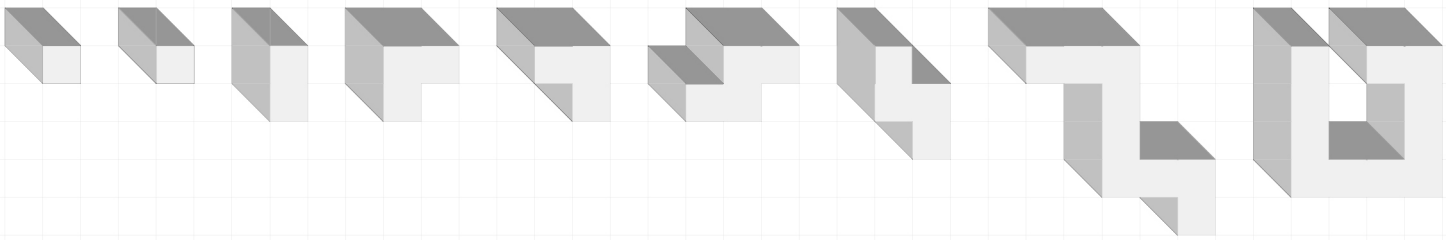

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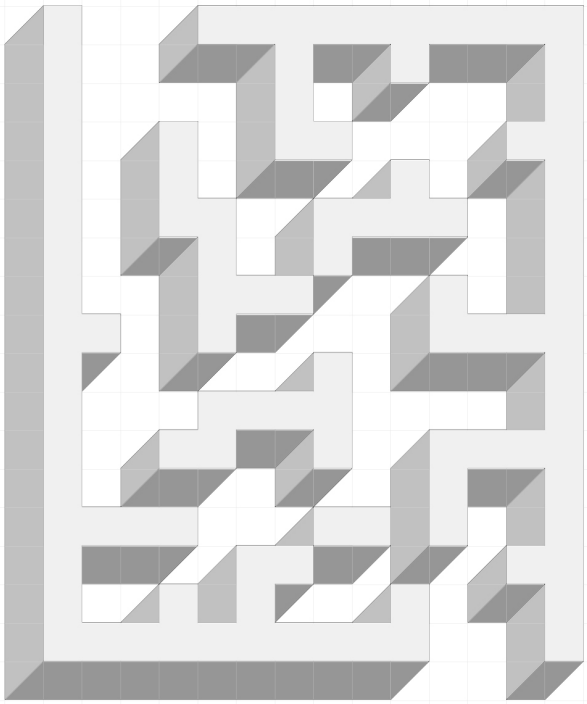

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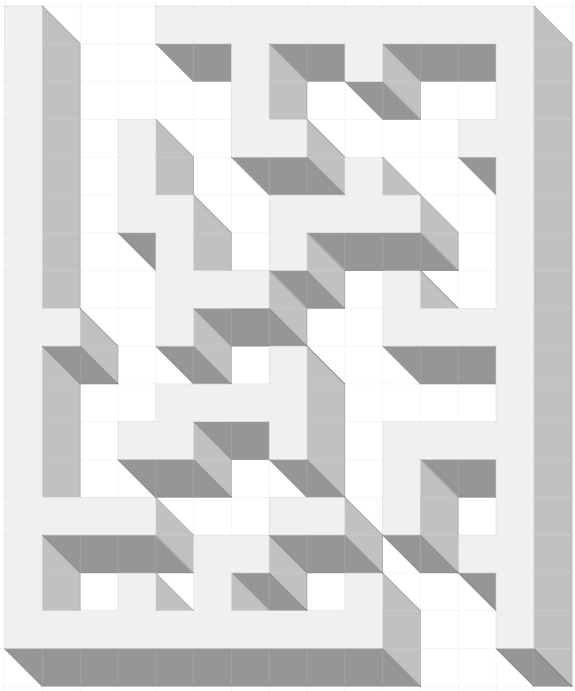

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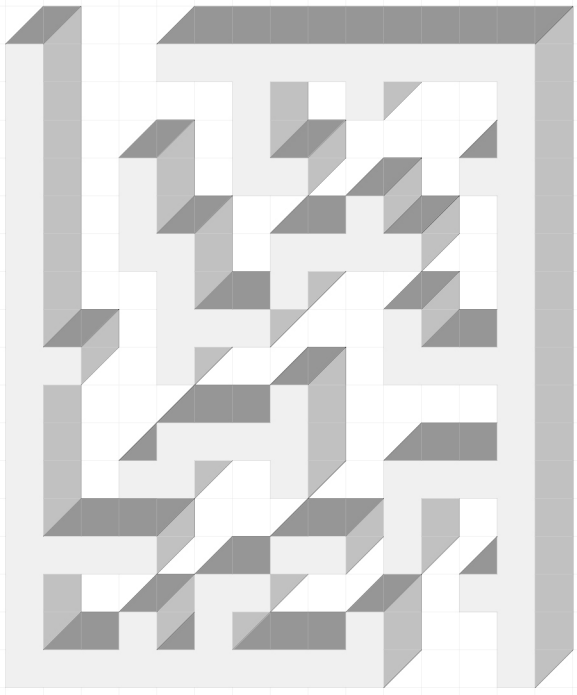

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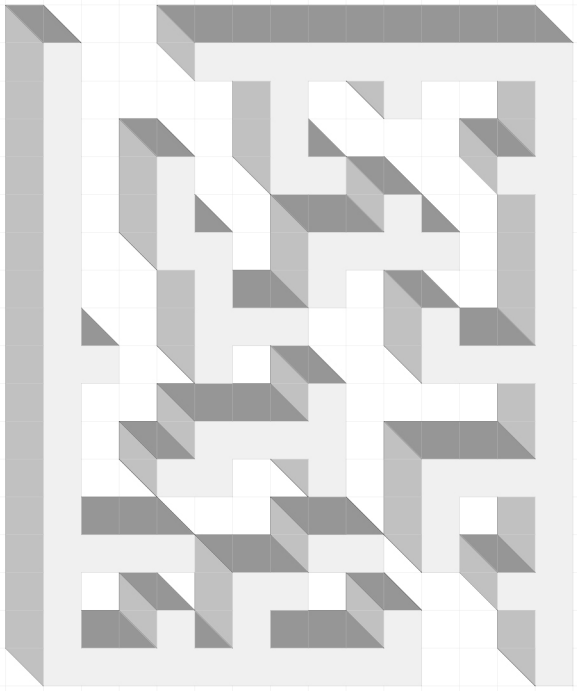

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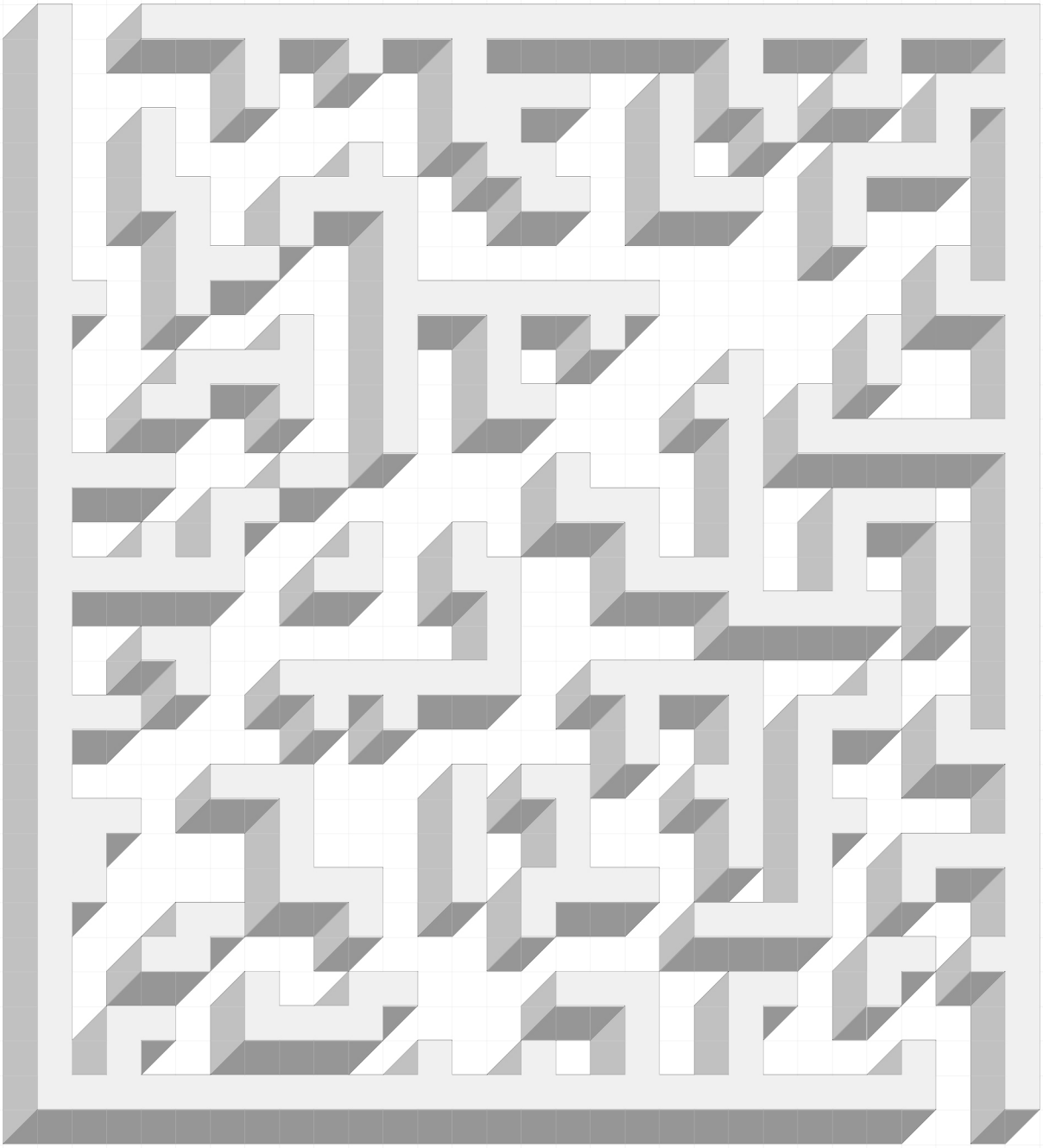
(example of a maze)