



Perfect Rectangle Puzzle 104x105

W Welt der Geduldspiele

VIEW IN BROWSER

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Summary

Pack the ten squares in the rectangular tray.

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Tags: [packingpuzzle](#)

A rectangle is called simple perfect if it can be filled completely with squares of different integer side length. This nice mathematical feature can obviously be turned into a puzzle.

The smallest simple perfect rectangles consist of nine pieces, one can be found here: <https://www.thingiverse.com/thing:2367965>. The perfect rectangle presented here is nearly quadratic and consists of ten pieces. Moreover, this perfect rectangle has the smallest piece with the largest size compared to the other perfect rectangles with 9 or 10 pieces, so all pieces are easy to handle.

The puzzle comes with a tray and the square pieces. They have their side length printed on one side for simplicity. If the puzzle is solved you can turn over all pieces to get an optically pleasing flat surface.

If you can read German: Mehr Informationen gibt es in <https://welt-der-geduldspiele.blogspot.com/search?q=3D-Druck>

Printing instructions:

The pieces are printed in three colors for optical reasons only.

The printing size of the puzzle is 1.5mm per unit.

I printed the puzzle in PLA at 0.1 mm layer height.

Puzzle difficulty: The fact that the rectangle has to be filled without holes makes the puzzle not too difficult. Simple calculations with the side lengths can help to find fitting pieces. You cannot be sure that adjacent pieces will have different colors.

If you like perfect rectangles but find this puzzle too easy, have a look at the larger perfect rectangle and the perfect square.

For general information about perfect rectangles and squares, see <http://www.squaring.net/>.

Print Settings

Printer Brand:

Prusa

Printer:

Mini

Rafts:

No

Supports:

No

Resolution:

200

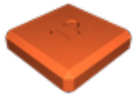
Infill:

38

Filament: Prusament PLA

Category: Puzzles

Model files



square_12_150.stl



square_26_150.stl



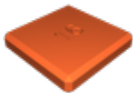
square_33_150.stl



square_7_150.stl



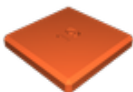
square_44_150.stl



square_16_150.stl



square_60_150.stl



square_19_150.stl



square_45_150.stl



tray_104x105_150.stl



square_28_150.stl

[Find source .stl files on Thingiverse.com](#)

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