Octoquadri

By The Book Wyrm
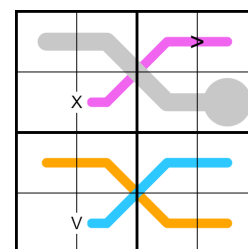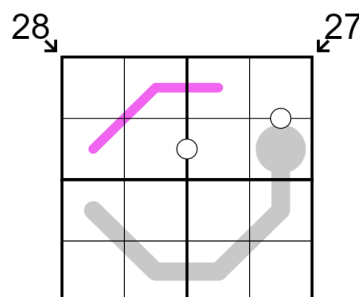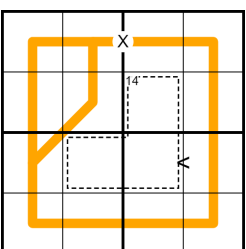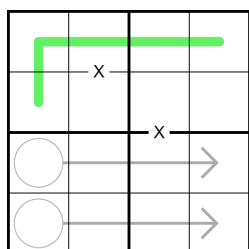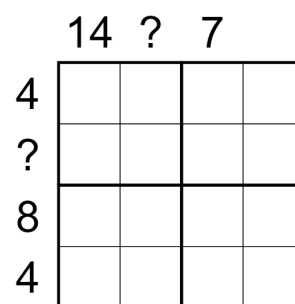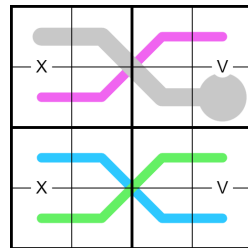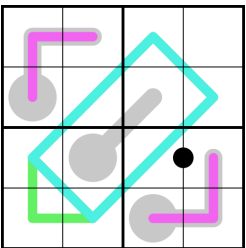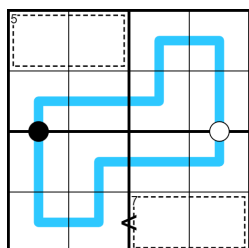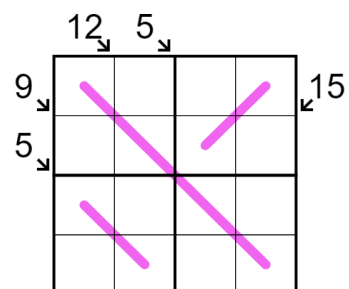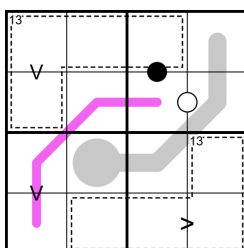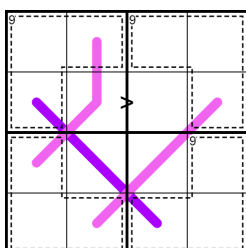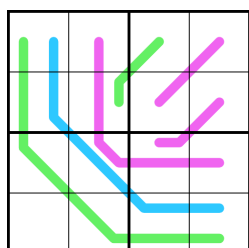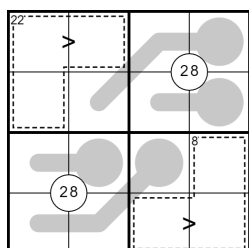
About the pack

Octoquadri were originally invented by AnalyticalNinja. Basically, they are an even more extreme version of a 4x4 mean mini. They use 8 digits from 1-9 and exactly two copies of each with no repeats in rows, columns, or 2x2 boxes. The original octoquadri puzzles can be found here.

I found the idea of Octoquadri intriguing, as it allowed for a lot of complex and interesting logic within a small grid, including some kinds of logic that aren't usually found in sudoku.
So, I decided to set some of them on my own. Over the course of a few months, I ended up creating quite a few, and so I have collected them all together to be released as one pack.

I have ordered the puzzles roughly in difficulty order, as best as I can estimate them. The puzzle are mostly between 1-3.5/5* difficulty, with around 2* being average. Some of these are rather tricky for their size, but all of them are solvable entirely logically.

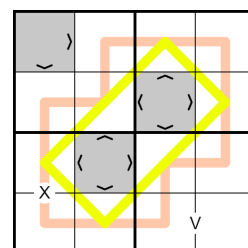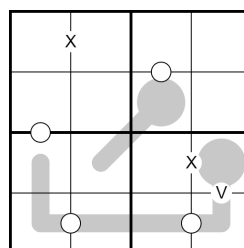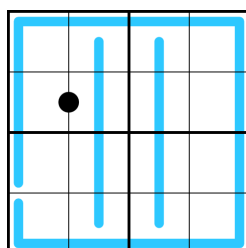Below is a contents page, giving the page numbers of each puzzle, which lists the main constraints in each puzzle. To avoid having to repeat them each time, disambiguators are not listed (kropki, XV, inequalities) - most puzzles need at least one of these to be unique, due to the nature of octoquadris. The rules for these are included in links.

Table of Contents

Garden Path

Thermometer, Quadruple, Killer
Easy

Rules:
Quadrupler - Digits in a circle must appear in one of the 4 surrounding cells.
Killer - Digits in a cage sum to the number in the top left corner.
Thermometer - Digits along a thermo increase from the bulb end.

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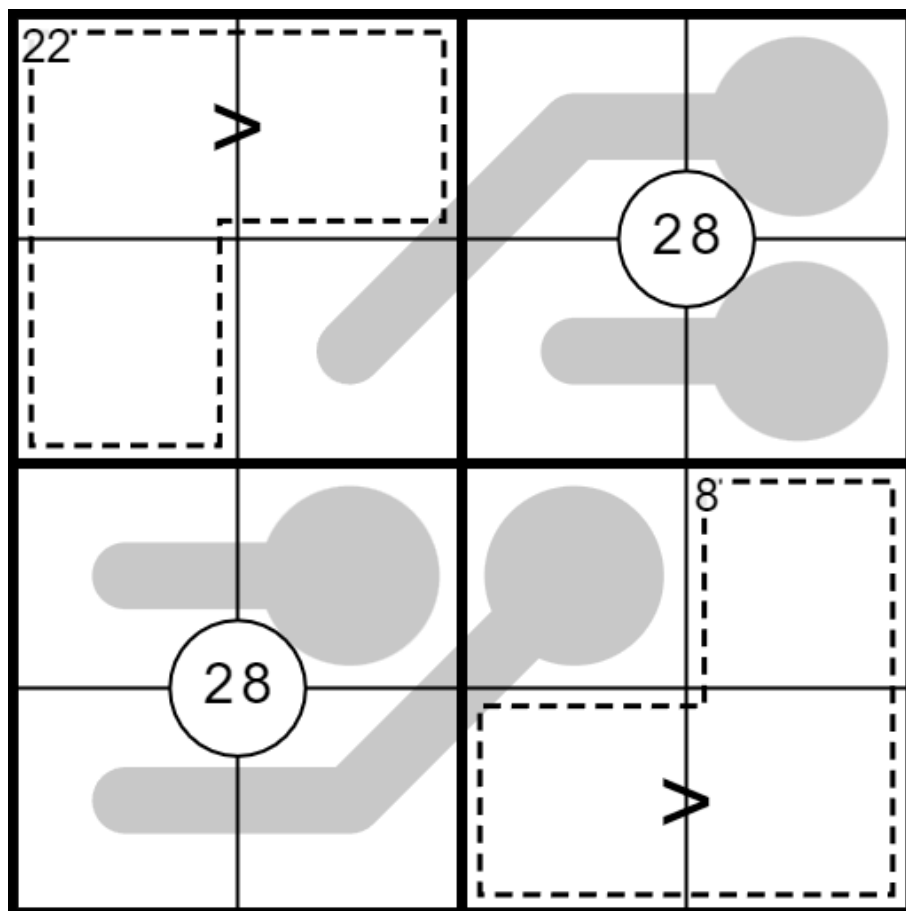
Grill

Region Sum Lines
Easy

Rules:

Region Sum Lines - Digits on a blue sum sum to the same value in each region the line passes through. If a line re-enters a region, both sections are counted separately.

https://sudokupad.app/yjub22only
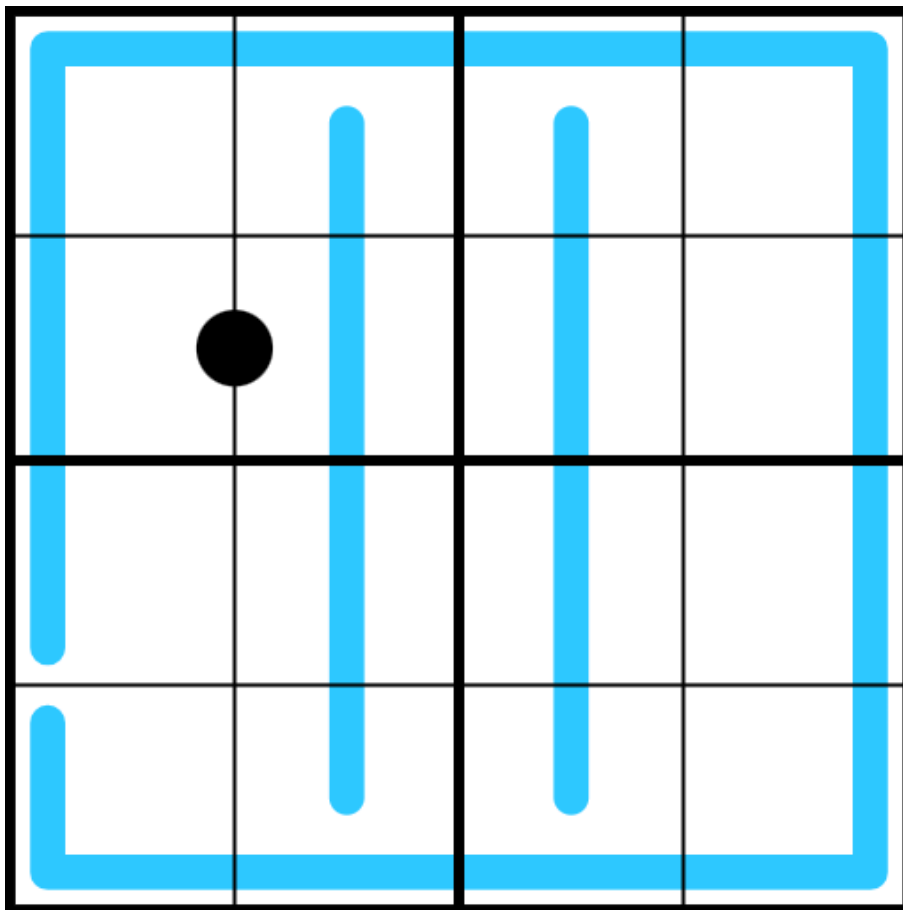
Mortar and Pestle

Thermometers, Global Entropy
Easy

Rules:
Global entropy - Global Entropy: Every 2x2 square (not necessarily region) must contain 1 low digit (1,2,3), 1 medium digit (4,5,6) and 1 high digit (7,8,9).
Thermometers - digits along a thermo increase from the bulb end.

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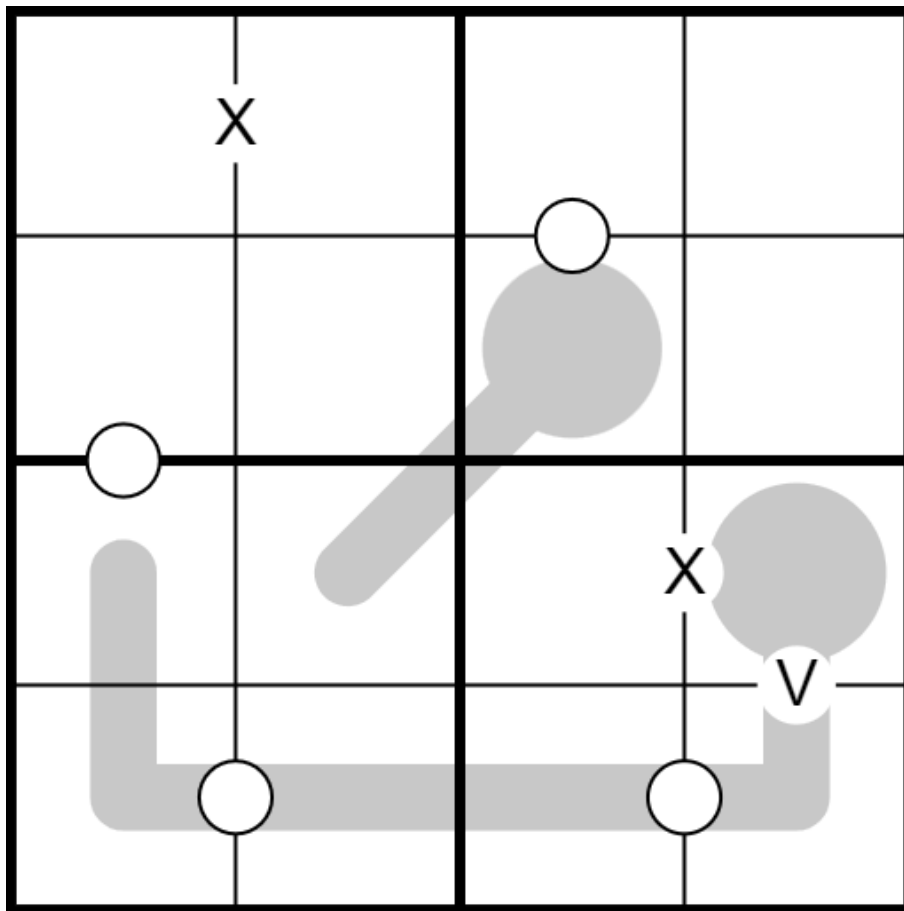
Island Fortress

Entropic line, Fortress, variant whisper
Easy

There are two versions of this puzzle. The first listed is slightly easier, but both are fairly easy compared to the pack as a whole.

Rules:
Variant whisper - Adjacent digits on a yellow line differ by at least 3.
Entropic line - Every set of three digits along a peach line must contain 1 high digit (789), 1 mid digit (456), and 1 low digit (123).
Fortress - A digit on a grey cell must be larger than all orthogonally adjacent cells.

V1: https://sudokupad.app/qlrgdxlvoz
V2: https://sudokupad.app/eqv0uciy09
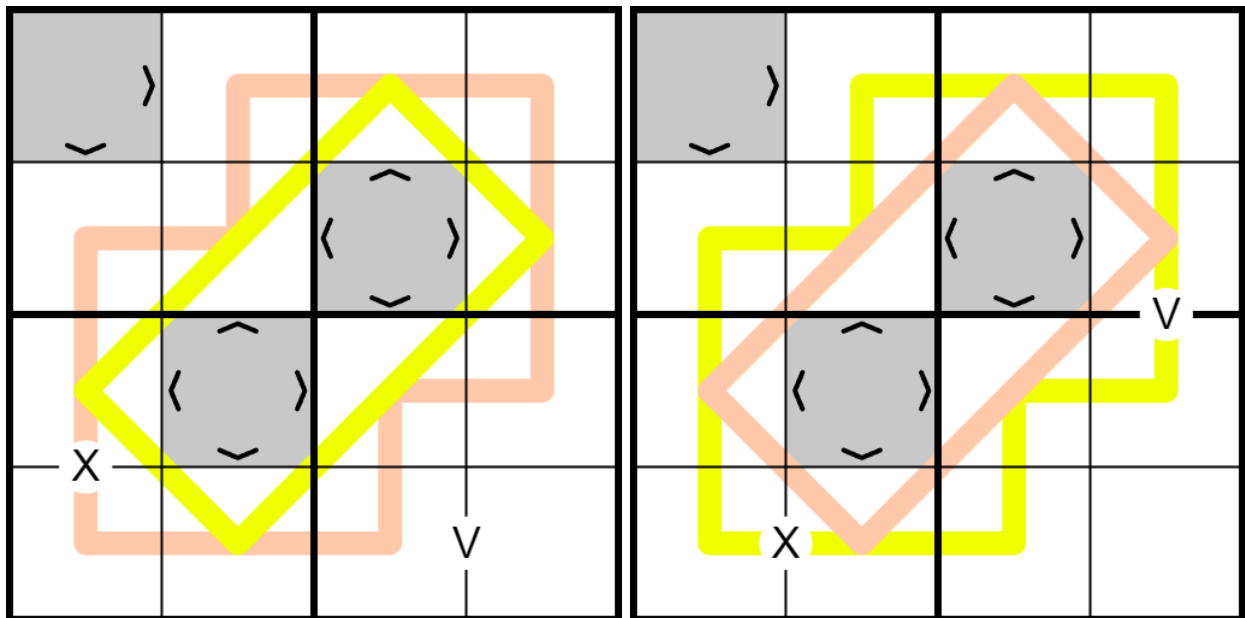
Radar

Region Sum Line, German Whisper, Renban
Medium

Rules:
German Whisper - Adjacent digits on a green line differ by at least 5.
Region Sum Line - Digits on a blue line sum to the same value in each region the line passes through.
Renabn - Digits on a purple line form a set of non-repeating consecutive digits.

https://sudokupad.app/8xrq1s8vq6
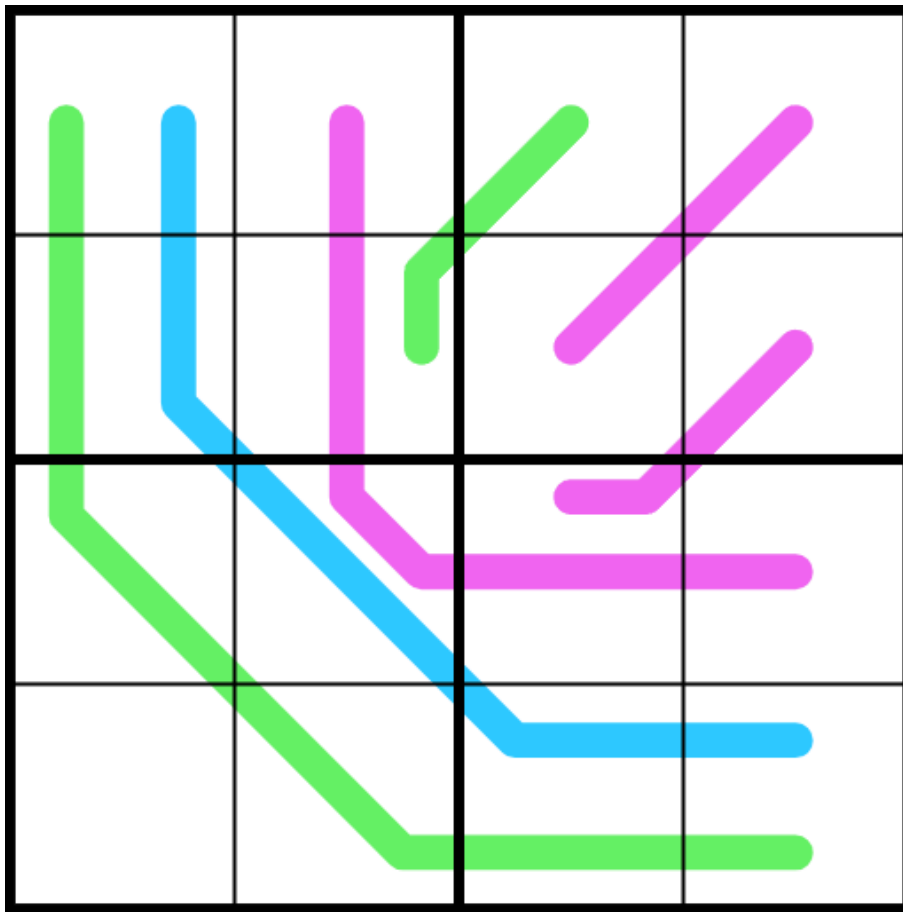
Courtyard

Killer, Renban
Medium

Rules:

Killer - Digits in a cage do not repeat and sum to the number in the top left corner, if given.

Renban - Digits on a purple line form a non-repeating set of consecutive digits. (The two different purples are to indicate that the lines cross)

https://sudokupad.app/an1ah91bki
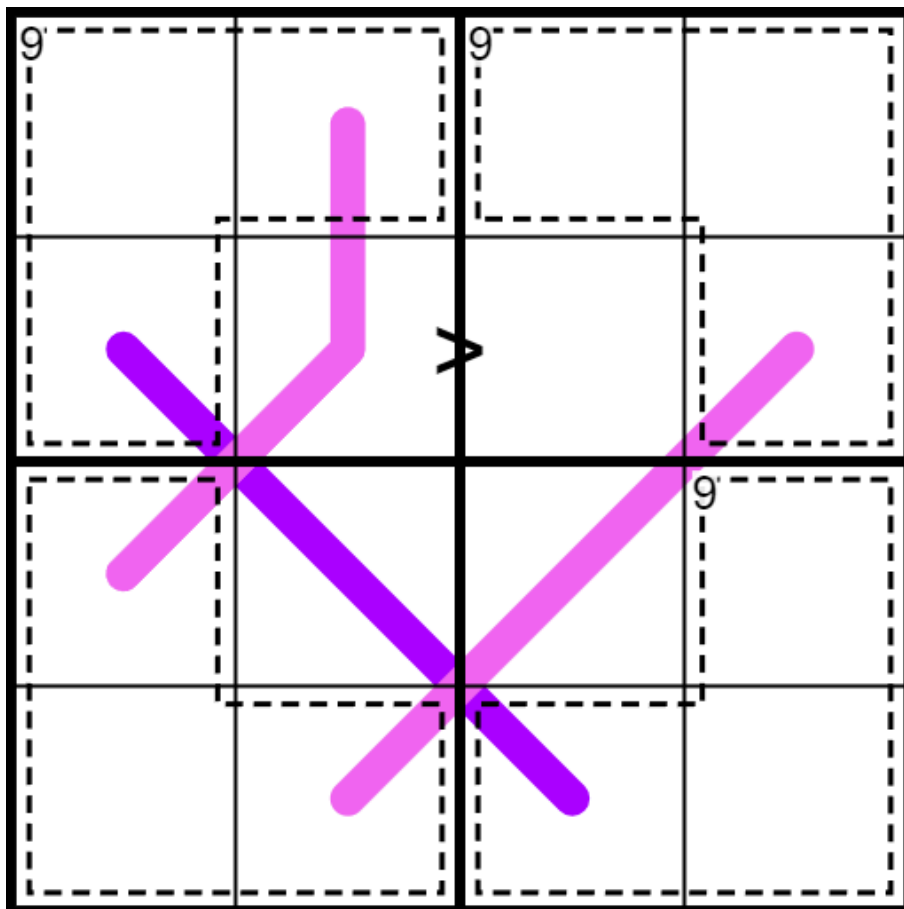
Slanted

Thermometer, Renban, Killer
Medium

Rules:
Renban - Digits on a purple line form a set of non-repeating consecutive digits.
Thermometer - Digits along a thermo increase from the bulb end.
Killer - Digits in a cage do not repeat and sum to the total given.

https://sudokupad.app/bwdq01l85h
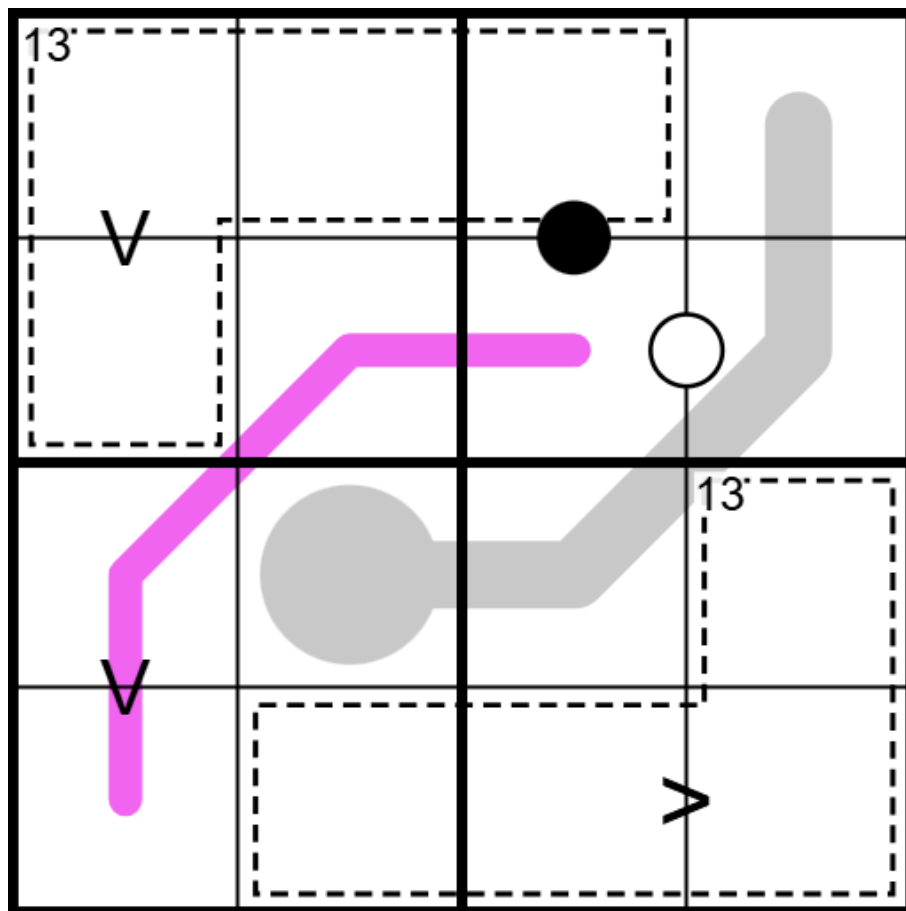
Feeling a Little Purple

Little Killers, Renban
Medium

Rules:

Little Killer - Digits along an indicated diagonal sum to the total given.

Renban - Digits on a purple line form a non-repeating set of consecutive digits.

https://sudokupad.app/2n9vjn1vzh

Lake
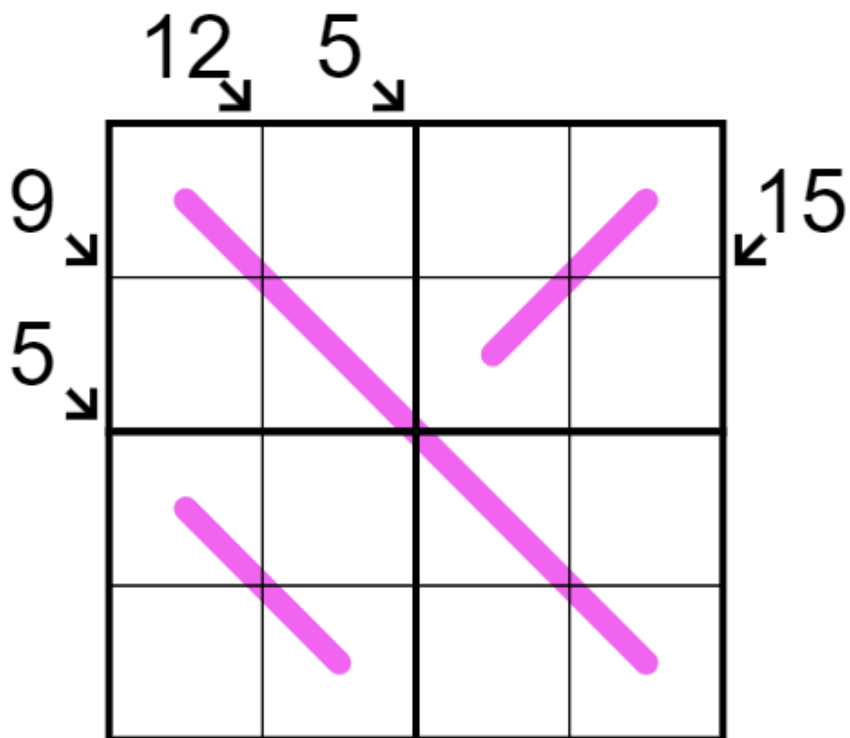
Region Sum Line, Killer
Medium

Rules:

Region Sum Line - Digits on a blue sum sum to the same value in each region the line passes through.
Killer - Digits in a cage sum to the total given.

https://sudokupad.app/vgg2bjrs97
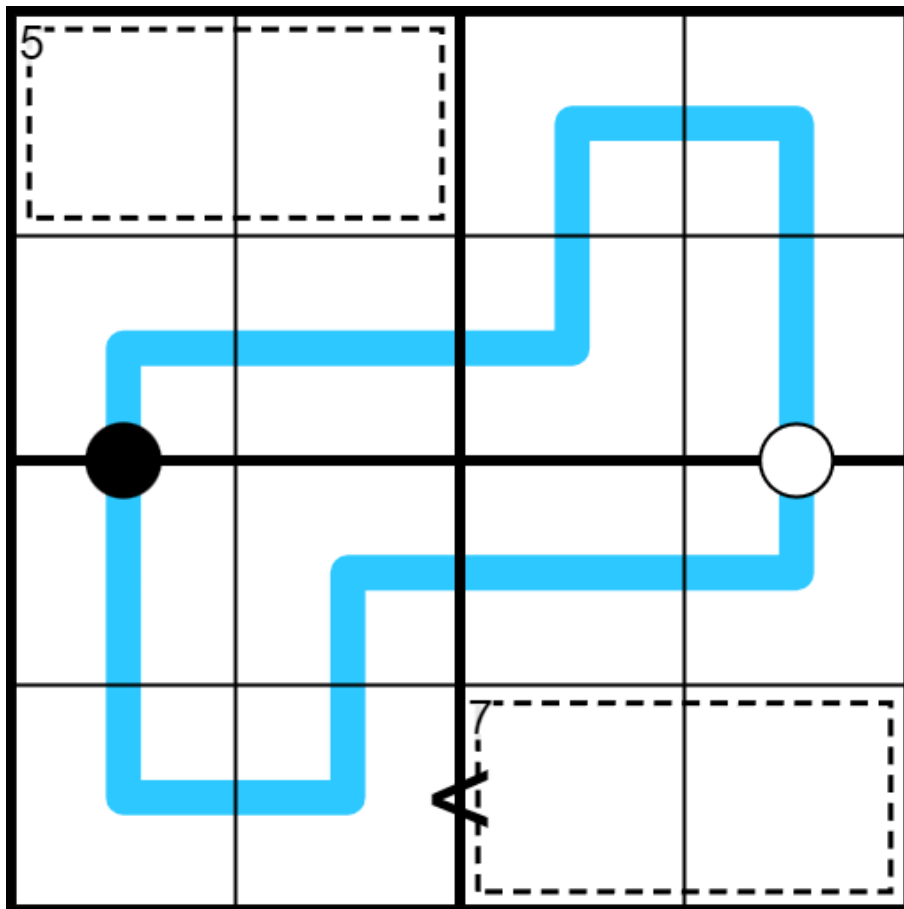
Pencil

Same Difference Line, German Whisper, Renban, Thermometer
Medium

Rules:

Same Difference line: Each pair of adjacent digits on the turquoise line has the same difference.

German Whisper - Adjacent digits on a green line differ by at least 5

Renban - Digits on a purple line form a non-repeating set of consecutive digits.

Thermometer - Digits along a thermometer increase from the bulb end.

https://sudokupad.app/u48dppzsas

DNA

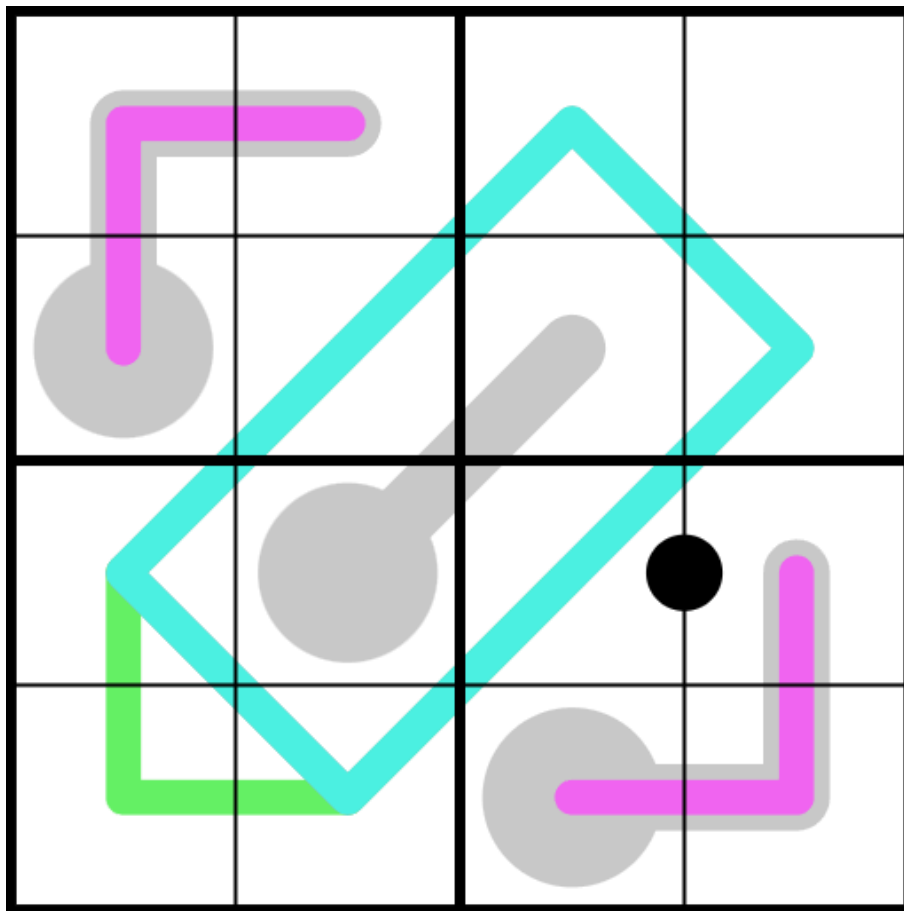*Thermometer, Region sum line, German whisper, Renban*
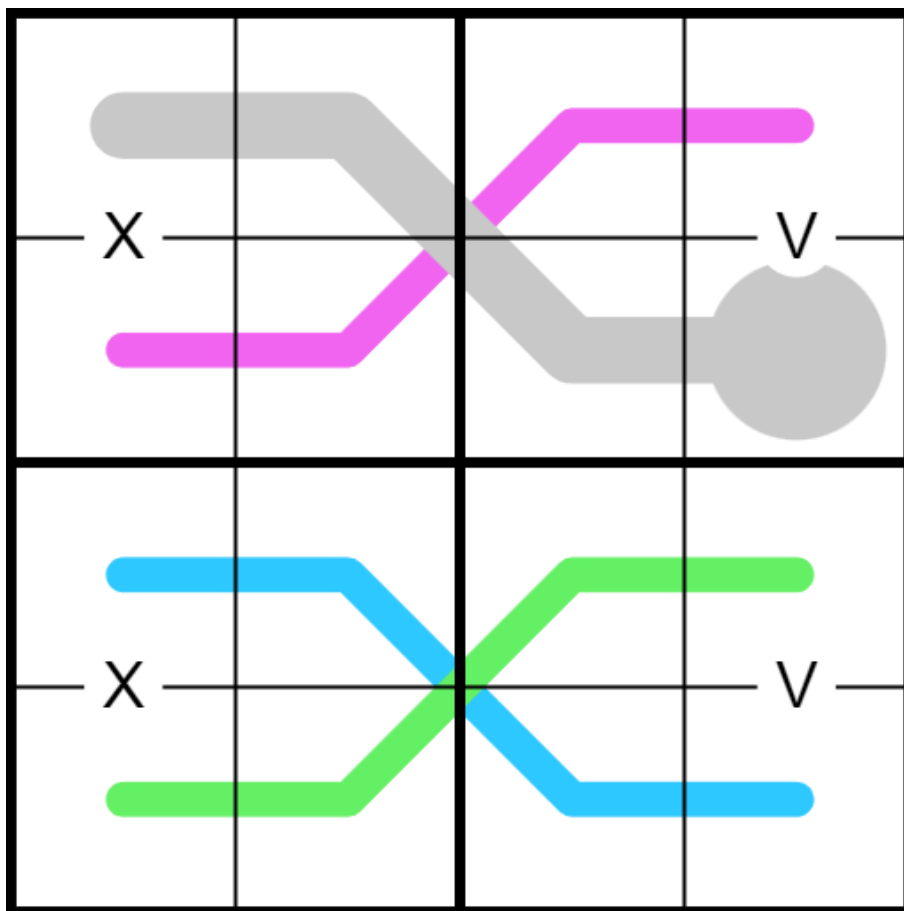*Medium*

Rules:

Renban - Digits along a purple line form a set of non-repeating consective digits.

Thermomer - Digits along a thermo increase from the bulb end.

German Whisper - Adjacent digits on a green line differ by at least 5.

Region Sum Line - Digits on a blue line sum to the same value in each region it passes through.

https://sudokupad.app/ghhjpieubx

Nibble

Variant Sandwich
Hard

Rules:
Variant Sandwich - Clues outside the grid give the sum of digits between the smallest and largest digits in that row/column.
?s represent a number from 1-9.

https://sudokupad.app/7soawopecx

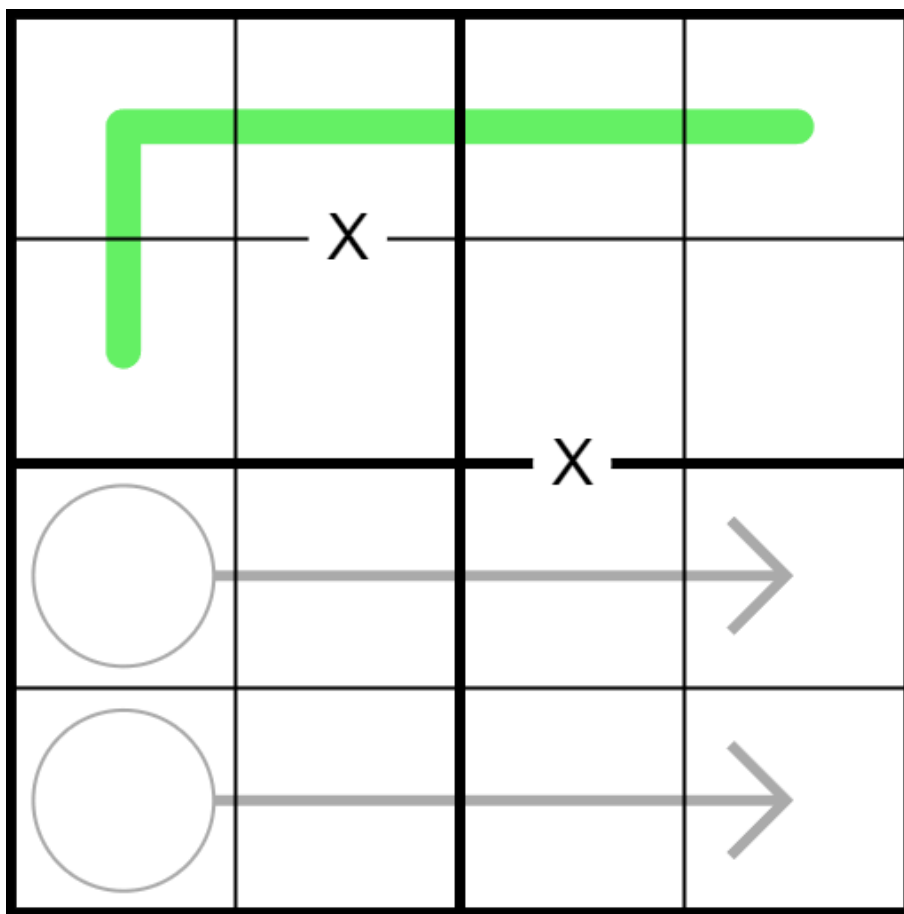|	14	?	7	
4				
?				
8				
4				

Radio

German Whisper, Arrow
Hard

Rules:
German Whisper - Adjacent digits on a green line differ by at least 5.
Arrow - Digits long an arrow sum to the digit in the circle.

https://sudokupad.app/4eghu04xot

Window Pane

Dutch Whisper, Killer
Hard

Rules:
Dutch whisper - Adjacent digits along an orange line differ by at least 4.
Killer - Digits in a cage do not repeat and sum to the total given.

https://sudokupad.app/r15hkleayc

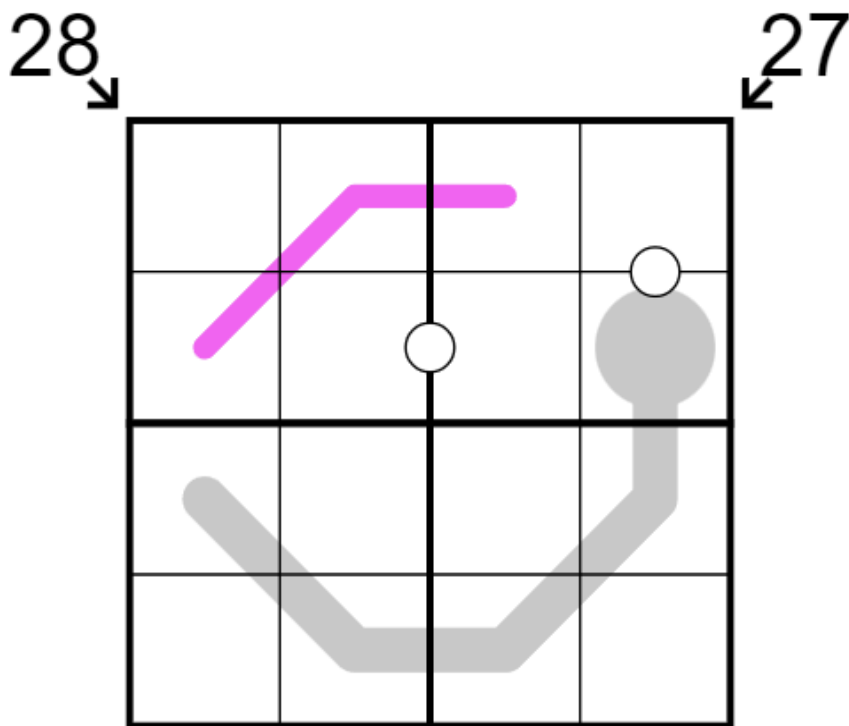## <u>Viewport</u>

Littler Killer, Renban, Thermometer
Hard

Rules:

Renban - Digits on a purple line form a non-repeating set of consecutive digits.

Thermometer - Digits along a thermometer increase from the blub end.

Little Killer - Digits along an indicated diagonal sum to the total given.

https://sudokupad.app/9i8baag3ya

Mutation

Thermometer, Renban, Dutch Whisper, Region Sum Line
Hard

Rules:

Thermometer - Digits along a thermo increase from the bulb end.

Renban - Digits along a purple line form a set of non-repeating consecutive digits.

Dutch Whisper - Adjacent digits on an orange line differ by at least 4.

Region Sum Line - Digits on a blue line sum to the same value in each region it passes through.

https://sudokupad.app/cu7ju2t5rf