Instructions for Mimizu

1. Mimizu is Japanese for "earthworm".

   Numbers are entered in order, as if we were numbering an earthworm from head to tail, starting with "2". This earthworm can only pass through openings, of course.
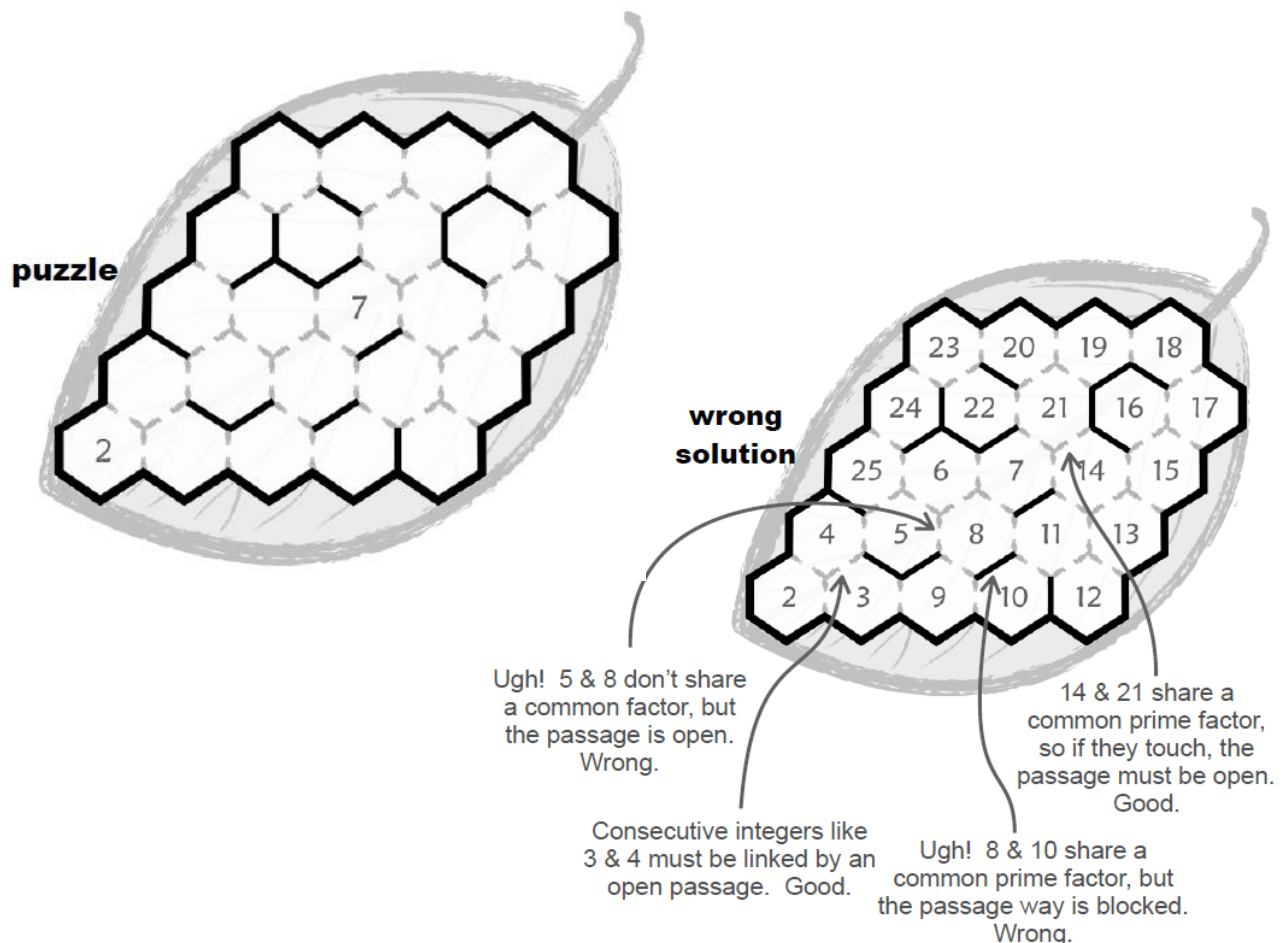
2. Openings.

   Light gray walls are "open". Adjacent hexagons with an opening must be consecutive numbers OR share a common prime factor. Conversely, consecutive hexagons or hexagons that share a common factor must have an open wall between them.

3. Walls

   Solid black walls are "Closed". Adjacent hexagons with a wall **cannot** be consecutive AND **cannot** share a common prime factor ... and vice-versa.

Try this beginner puzzle. I've included an incorrect solution, with notes as to what is wrong. The correct answer is on the back.

puzzle

wrong solution

Ugh! 5 & 8 don't share a common factor, but the passage is open. Wrong.

Consecutive integers like 3 & 4 must be linked by an open passage. Good.

Ugh! 8 & 10 share a common prime factor, but the passage way is blocked. Wrong.

14 & 21 share a common prime factor, so if they touch, the passage must be open. Good.

Firstly and most importantly, you can trace
the earthworm from 2 to 25, winding throughout the puzzle.

correct solution

	12	15	16	17
11	13	14	19	18
10	8	7	21	20
3	9	6	24	22
2	4	5	25	23

6 & 9 share a common prime factor and the linking passage is open. Good.

Consecutive integers like 3 & 4 must be linked by an open passage. Good.

6 & 25 do not share a common factor and the passage way is blocked. Good.

14 & 21 share a common prime factor, so if they touch, the passage must be open. Good.