

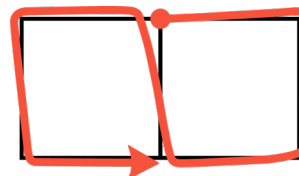


The Julia Robinson Mathematics Festival (JRMF) is a math education non-profit on a mission to help every student build confidence, joy, and a positive identity around math. We do this by hosting math festivals at schools and other community centers. At a math festival, students and their families explore a variety of hands-on, play-based math puzzles and games. A math festival is an opportunity for the whole community to come together and celebrate math.

Learn more about how you can spread the joy of math at jrmf.org.



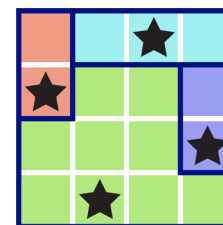
Doodles



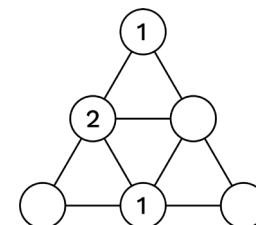
Jumping Julia

Start 3	2	2	1
3	2	1	3
1	1	1	1
1	3	1	Goal

Star Battle



Stepping Stones



Visit jrmf.org for more fun math.

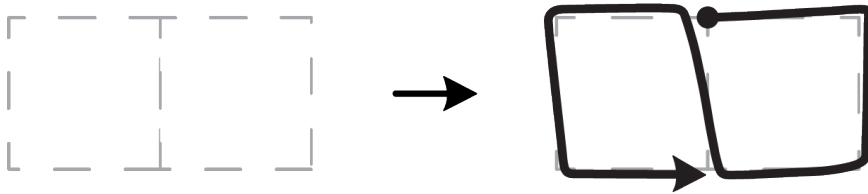
Doodles

Instructions:

Trace each doodle without lifting your pencil.

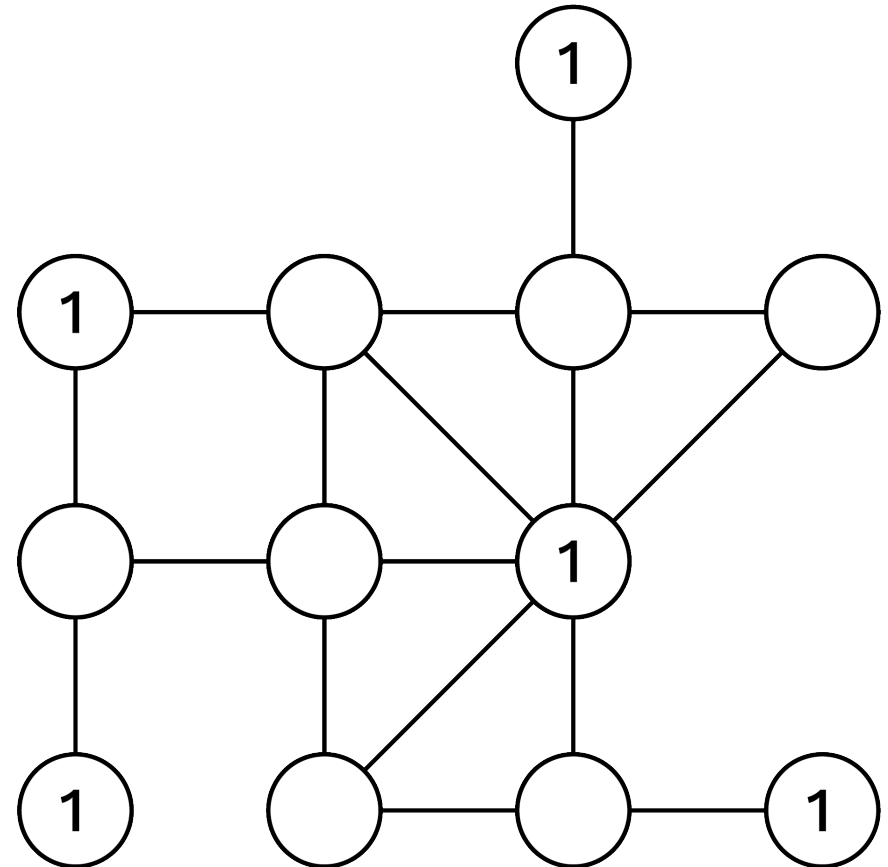
Rules:

1. Pick any point to start on.
2. Trace the whole doodle without lifting your pencil.
3. You cannot trace a line more than once.



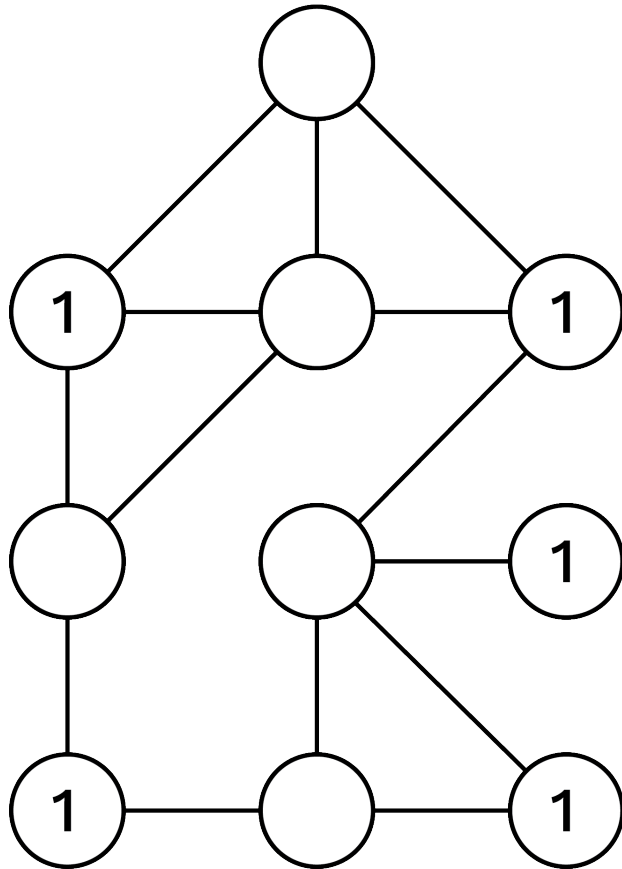
Stepping Stones

Puzzle 8



Stepping Stones

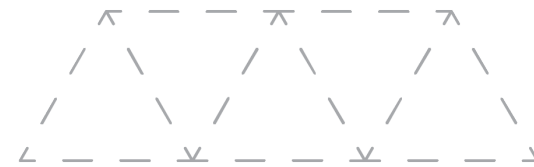
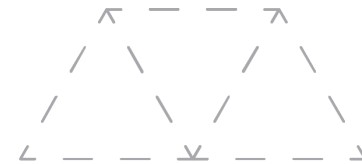
Puzzle 7



Doodles

Challenge 1:

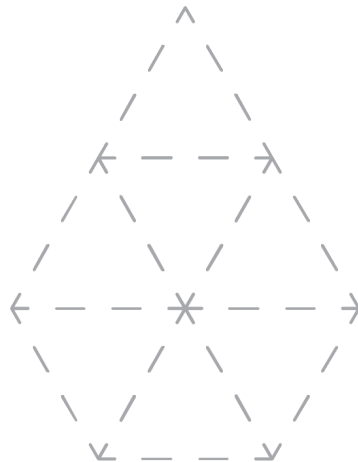
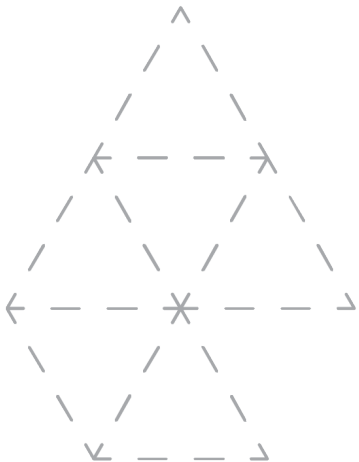
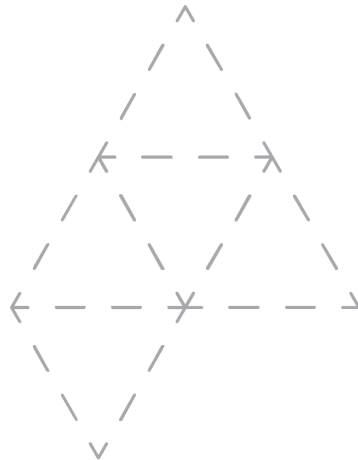
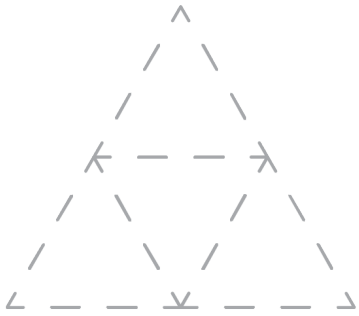
Can you trace each doodle without lifting your pencil?



Doodles

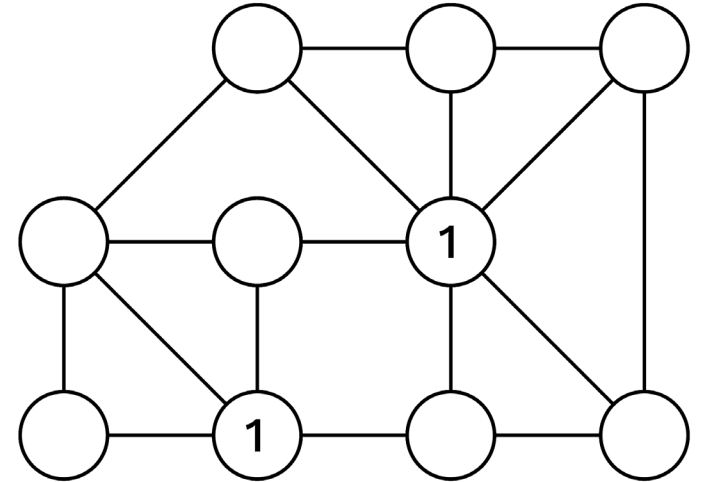
Challenge 2:

One of these doodles is impossible to trace without lifting your pencil. Which one is impossible?

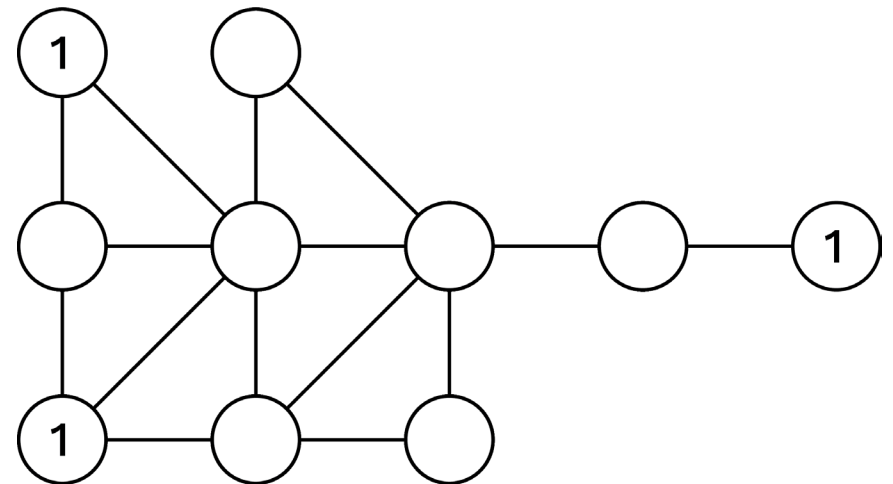


Stepping Stones

Puzzle 5

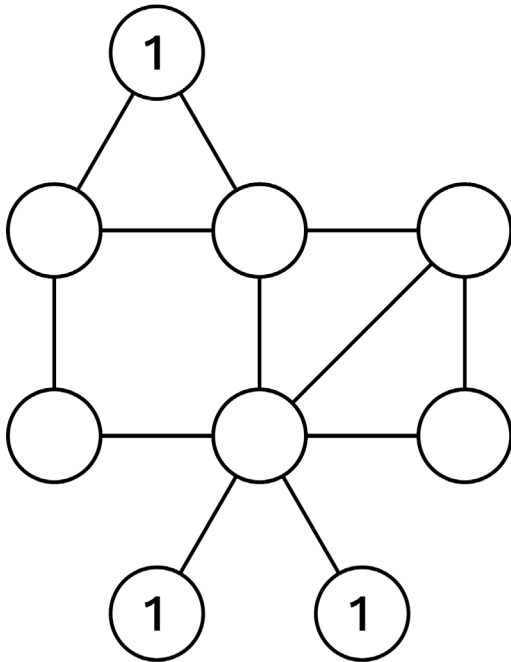


Puzzle 6

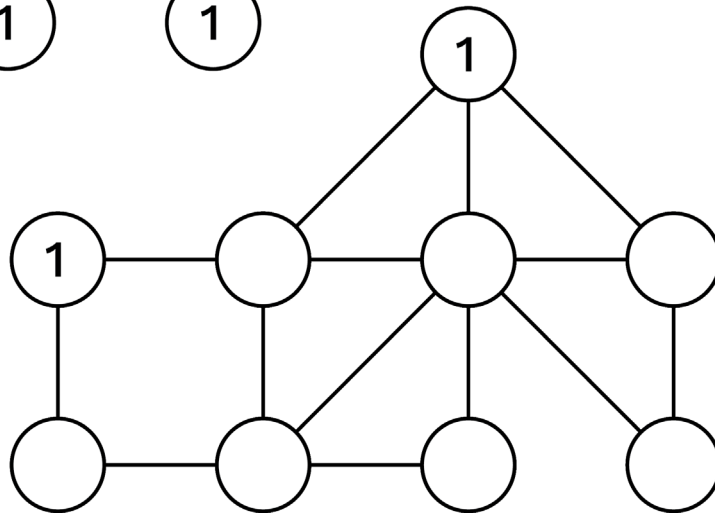


Stepping Stones

Puzzle 3



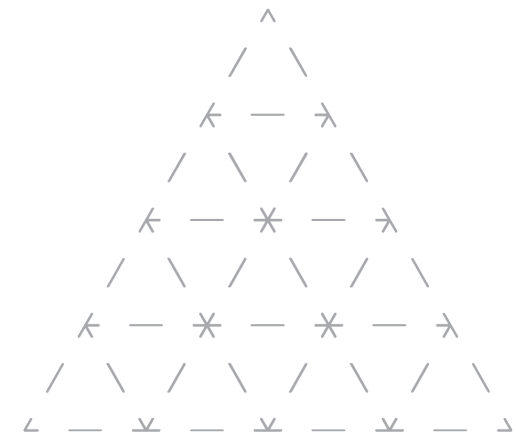
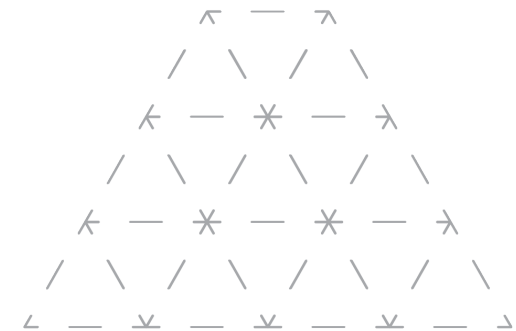
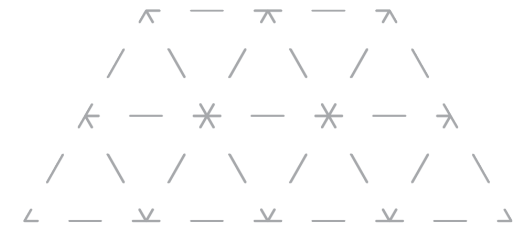
Puzzle 4



Doodles

Challenge 3:

Is it possible to trace each of these doodles? For the doodles you can trace, can you start at any point?



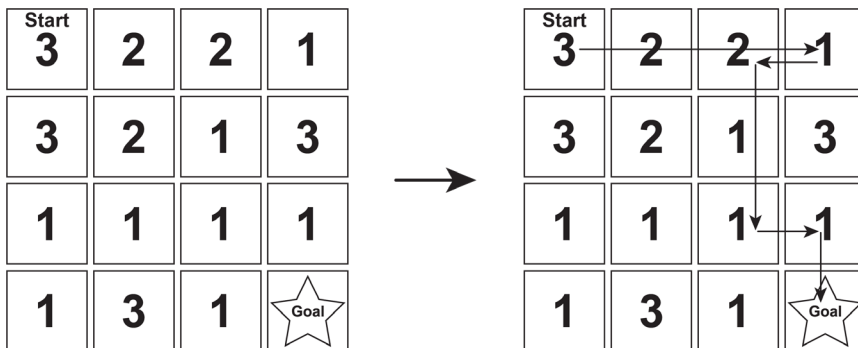
Jumping Julia

Instructions:

Start in the top left corner and try to get to the goal.

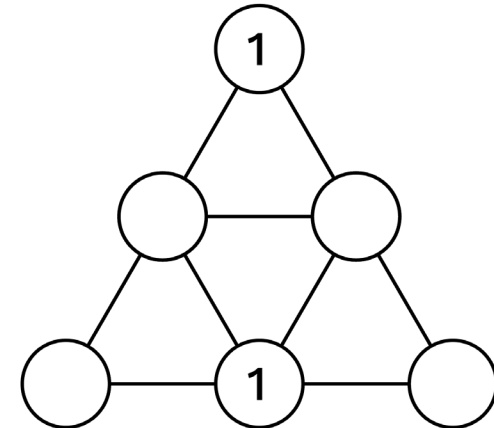
Rules:

1. Start on the square that says “Start”.
2. The number you are on tells you many squares you must move. For example, if you are on a 3, you must move 3 squares.
3. You can only move up, down, left, or right in a straight line. You cannot move diagonally or in an L-shape.

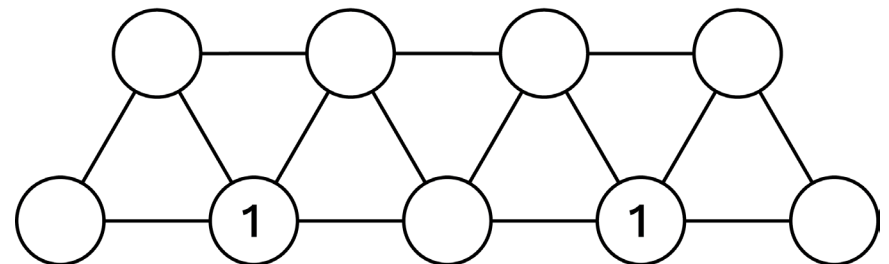


Stepping Stones

Puzzle 1



Puzzle 2



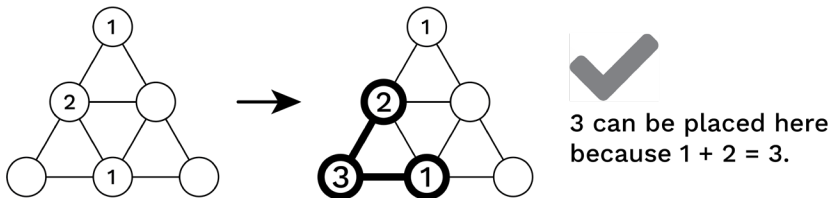
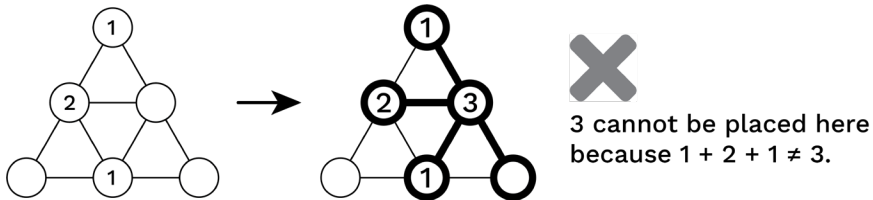
Stepping Stones

Instructions:

Write numbers in the empty circles in each puzzle.

Rules:

1. Every empty circle needs a number.
2. Start with 2 and then go in order: after 2, write 3, then 4, then 5, and so on.
3. When a number is written in a circle, it must be the sum of the numbers connected to it.



4. A number only needs to follow rule #3 the moment it is written. After a number is written, you don't need to worry about it anymore.


Jumping Julia

Challenge 1

Start 3	2	3	2
2	1	2	1
2	2	2	2
1	3	1	Goal

Jumping Julia

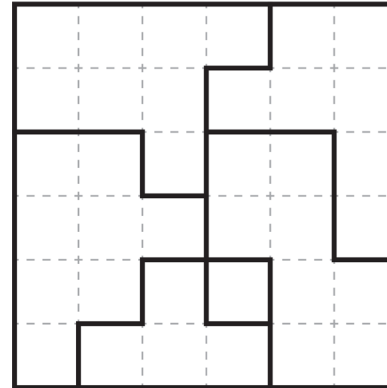
Challenge 2

Start 1	3	2	1
2	1	3	2
1	2	2	2
2	3	3	Goal 

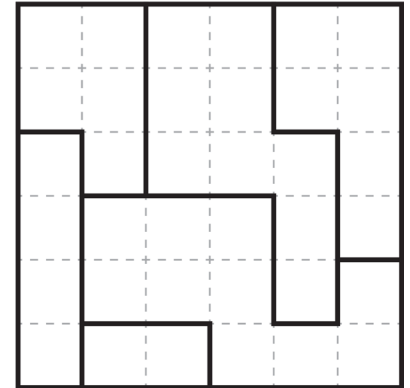
Star Battle

Place 6 stars in each puzzle.

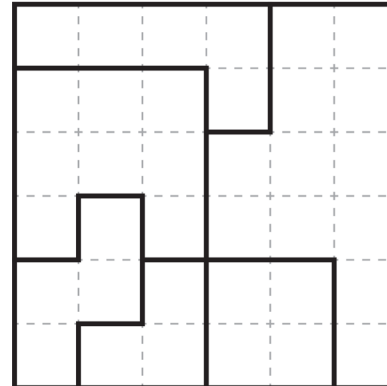
Puzzle 11



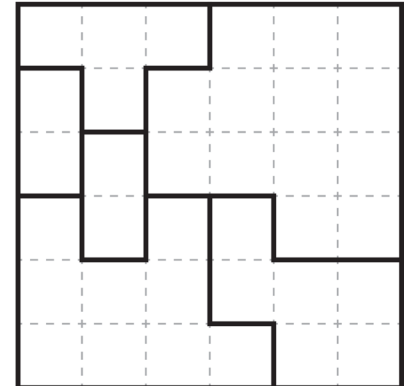
Puzzle 12



Puzzle 13



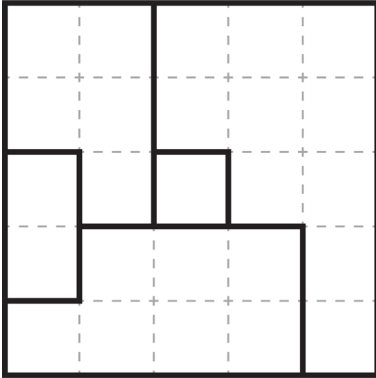
Puzzle 14



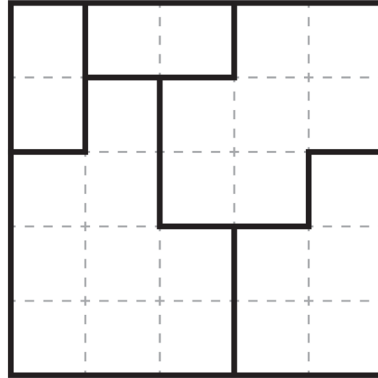
Star Battle

Place 5 stars in each puzzle.

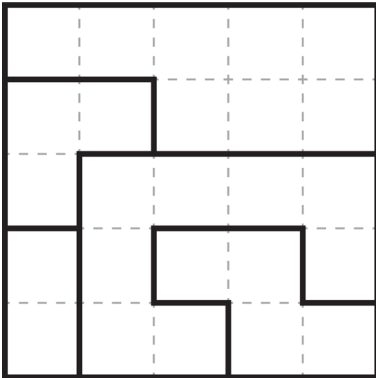
Puzzle 7



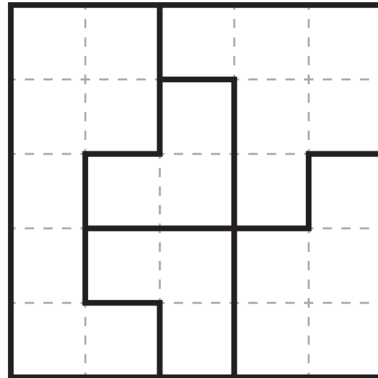
Puzzle 8



Puzzle 9




Puzzle 10



Jumping Julia

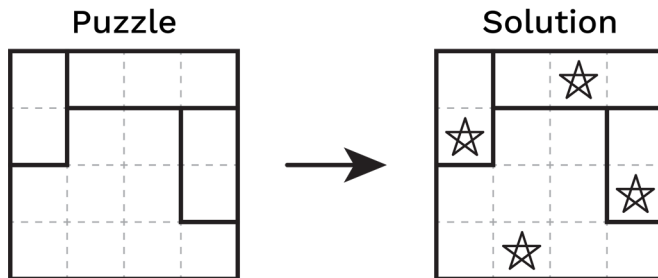
Challenge 3

Start 2	1	3	3
2	1	3	1
2	2	2	2
1	3	2	Goal 

Star Battle

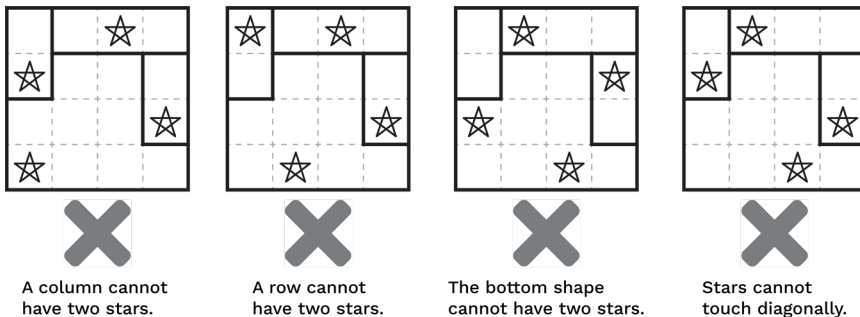
Instructions:

Place 4 stars in each puzzle.



Rules:

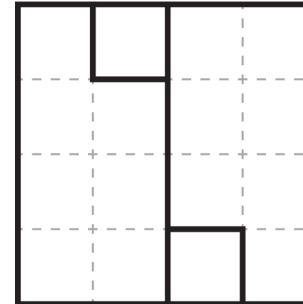
1. There needs to be one star in every row and column.
2. There needs to be one star in every shape
3. Stars cannot touch diagonally.



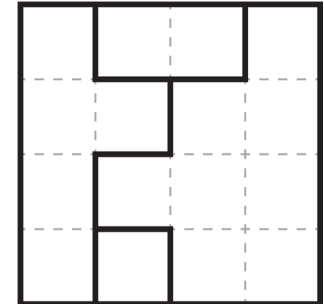
Star Battle

Place 4 stars in each puzzle.

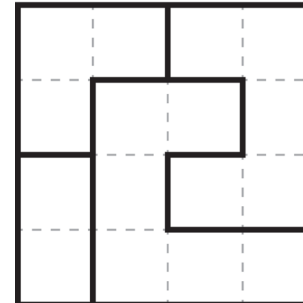
Puzzle 1



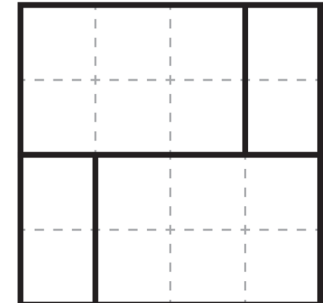
Puzzle 2



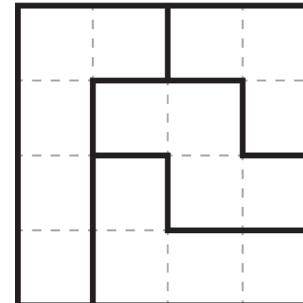
Puzzle 3



Puzzle 4



Puzzle 5



Puzzle 6

