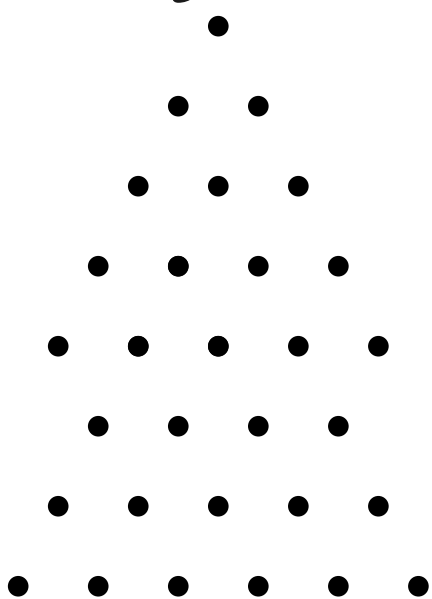


MathsJam Shout

December 2022
Guildford MathsJam

Play Lights on the tree



Printable board: bit.ly/lights-on-tree

A game played on a triangular or tree-shaped array of dots, on which electric Christmas tree lights are to be added.

The game is played like dots & boxes, but each move starts where the previous one finished: One player circles a dot, the next draws a line from there to an adjacent dot and players then alternate drawing a line segment starting from where the previous line finished.

On completing a little triangle, a player initials the triangle and makes another move. When no more moves are possible, the player having initialled the most triangles is the winner.

On 4 rows of dots (10 in total) which player wins?

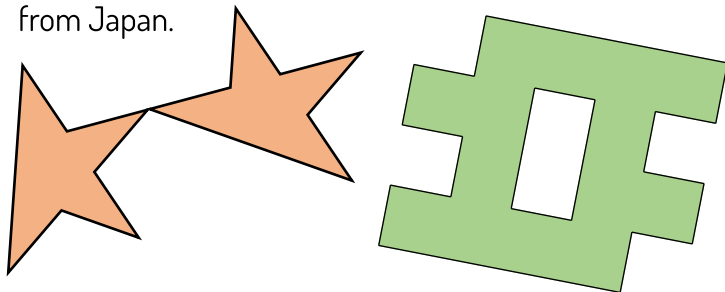
Puzzle New Year

15 integers between 1 and 2023 are pairwise coprime. Show that at least one is prime.

(Can we re-use this puzzle for other years?)

Make Folding Puzzles

These Tadao Kitazawa Folding Puzzles are taken from Arithmetical, Geometrical and Combinatorial Puzzles from Japan.



Printable sheet: bit.ly/folding-puzzles

MathsJam Shout is a monthly sheet of ideas for activities to do at a MathsJam night. It's created using suggestions from a different MathsJam each month, and if you'd like to submit suggestions for a month in the future, email katie@mathsjam.com for details.

MathsJam is a monthly opportunity for like-minded self-confessed maths enthusiasts to get together in a pub and share stuff they like. Puzzles, games, problems, or just anything they think is cool or interesting. Monthly MathsJam nights happen in over 70 locations around the world, on the second-to-last Tuesday of each month. To find your nearest MathsJam, visit the website at www.mathsjam.com.