

MathsJam

Shout

June 2023

Pride Month Special

This month's Shout is a special themed edition for Pride month. For more information about LGBTQIA+ people in STEM, visit prideinstem.org or find out about Spectra, the Association for LGBT Mathematicians, at lgbtmath.org.

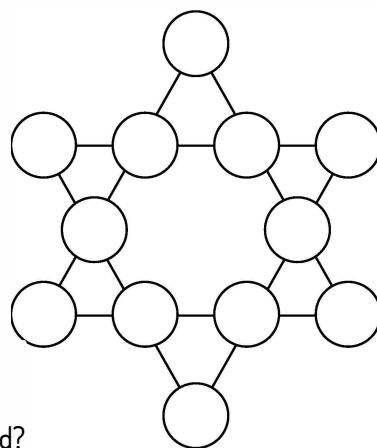
Play Turing Machine

To remember LGBT mathematician **Alan Turing**, visit the Turing Machine simulator at turingmachine.io, and attempt some of the exercises there.

Puzzle

A star for Agnes Wells

To honour LGBT astronomer and activist **Agnes E. Wells**, fit the numbers 1-12 into the spaces so each line sums to 26. What's the most elegant solution you can find?



Trick Four Aces ♠

To acknowledge asexuals, sometimes called 'Aces', try this mathematical card trick involving four aces and figure out how it works.

Video: bit.ly/four-aces-trick

Puzzle

An integral for James Stewart

In memory of LGBT mathematician and architect **James Stewart**, solve this integration puzzle, and read about his calculus-inspired house.

Puzzle source, with hint:

www.mscroggs.co.uk/puzzles/133

Article: bit.ly/integral-house-article

What is $\int_0^{\frac{\pi}{2}} \frac{1}{1 + \tan^a(x)} dx$?



Puzzle

Non-Attacking (Drag) Queens

To celebrate LGBT mathematician **Kyne Santos**, can you place eight drag queens on a chess board so that none of them can attack another? (Drag queens move like chess queens). There are 12 possible solutions - but can you find the one where no three queens lie in an exact straight line at any angle?

Watch Kyne's maths videos: tiktok.com/@onlinekyne

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.