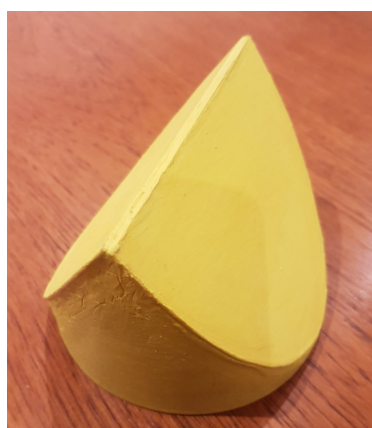


MathsJam Shout

February 2019
East Dorset MathsJam

Make Projection Paradox

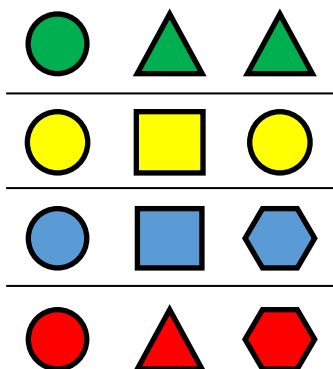


This ingenious object casts a circular shadow from above, a square shadow from the front, and a triangular shadow from the side.

Printable net: bit.ly/solidnet

3D printing file: bit.ly/solid3dprint

Design objects which cast these sets of shadows in each direction:



Create nets and build the shapes - share photos and video of your creations!

START



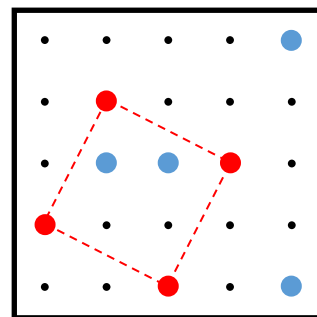
MathsJam Shout is a monthly sheet of ideas for activities to do at a MathsJam night. It's created using suggestions from a different MathsJam each month, and if you'd like to submit suggestions for a month in the future, email katie@mathsjam.com for details.

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 50 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.

Game Square it!

You will need: 5x5 dotted grids; two different pens to draw with (different colours, or thicknesses)

Two players take it in turns to put a blob on any free dot. First player to complete a square in their own pen wins. Squares can be any size and orientation. In the game pictured, red has just won.



Printable 5x5 grids: bit.ly/print_5by5

Puzzle Gamble Shambles

In a game of dice, you start on 0 and repeatedly roll a (normal) dice, moving the number of spaces shown. If you land exactly on "ten" you win £1. If you overshoot 10, you lose.

If you play the game 100 times, how much money would you expect to win? What about if we change the target space to a different number? **£1**