

Staff and Columban Community Puzzles of the day

Welcome to Maths Week England at SCC. Here is your puzzle of the day. Prizes will be awarded for the best presentation of answers and explaining the working out. You can answer any of the puzzles or all 5, answers should be submitted to **Mrs Rowe**, either in the staff room pigeon-hole or via email, rowe.a@stcolumbascollege.org

Monday

Using a dotted square with numbers, join lines between dots so that a line is only ever intersected at most once. What is the lowest total possible from un-joined dots?



Tuesday



Wednesday



Thursday

The Hidden Maths in Pasta.
The Spaghetti Measurer is a simple tool for measuring the amount of spaghetti you need. How simple is it? You just pass the pasta through a hole–no scales or bowls required! However, today the supermarket is out of Spaghetti and only has Capellini, which is very similar. Both are long, thin cylinders, but Capellini is even thinner.

**Question**: If the hole is designed to measure 100g of Spaghetti, but you're now using Capellini (assuming the length and density are the same), will you end up with more or less than 100g pasta?

Friday