



55 is the largest triangular Fibonacci number

### News

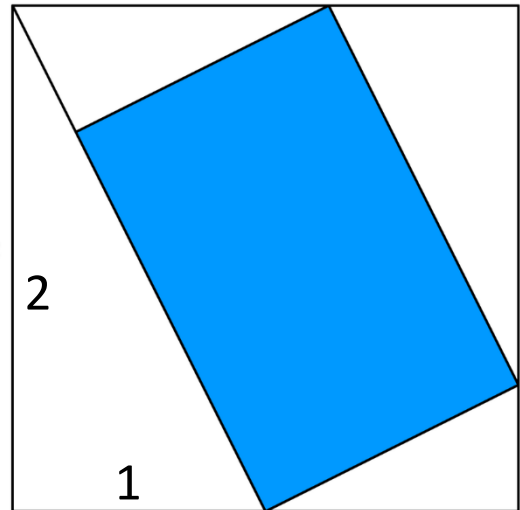
Welcome to the latest maths newsletter! Did you know that in Thailand '555' is used by some people as slang for 'ha-ha-ha', because the word for 'five' is pronounced 'ha'? We didn't know this either, but the internet says it's true, so it must be, right?<sup>1</sup> On the back of this newsletter, we have decided to put Dominic Williams's 'Map of Mathematics', because we thought that you might find it interesting. If you want to know more about what each part means, there is a YouTube video that explains it all. Just go onto YouTube and type 'Map of Mathematics'.



### Maths Puzzle

Here's a geometry puzzle from Catriona Shearer (@Cshearer41). The diagram shows a rectangle inside a square. What fraction of the diagram is shaded?

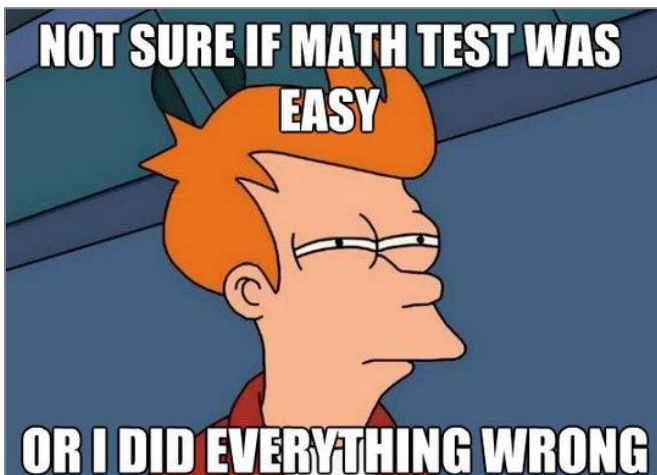
The side length of the square is 2, and the diagonal line from the top left-hand corner ends at the mid-point of the base.



### Did you know?

"Eleven plus two" is an anagram of "twelve plus one" and they both equal 13. They also both contain 13 letters. How weird is that?

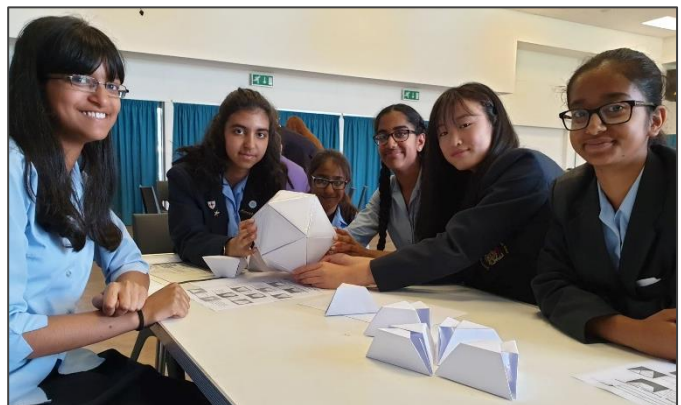
### Maths Meme



1. If anyone can confirm whether this is true or not, please let us know!

### Team Maths Challenge

On Thursday 4<sup>th</sup> July, a team of six year 9 students competed in the Birmingham South Network Maths Challenge at Swanshurst School. We don't win this every year – we let the boys' school win it every other year so that they don't get too upset. This was one of those years. We still finished in second place though.



From left to right – Kiera Fernandes, Haaniah Sultan, Aahana Jain, Mamta Garikapati, Tianran Ge, and Mayuri Swaminathan.

