



Ritangle

Every length on the perimeter of this snowflake is 1, 2 or 3 units, and every angle you can see is an integer multiple of 60° .

If $P\%$ of the area of the bounding regular hexagon is taken up by the snowflake, what is P (to 3.sig.figs.)?



Enjoy questions like this?

0 9, 2 7, 4 5, 6 3, 8 1

There are several increasing arithmetic sequences of five positive 2-digit integers using, between them, the digits 0 to 9 once each. Above is one example, with a sum of 225.

What is the total of the sums of all such sequences?

Team up with friends, tackle weekly challenges, and put your problem-solving skills to the test.

Ready for the challenge?

Take part from 8 October 2025

"Students who take part are so engaged and excited by it, every year. They live and breathe it for the duration. And they learn so much from being involved in it."

To find out more, visit

mei.org.uk/Ritangle

or scan the QR code



Ritangle is a national maths competition for 16–18 year olds studying A level Mathematics (or equivalent).

