Ritangle 2024

A competition designed for teams of students aged 16-18 who are currently studying either A level Mathematics, the International Baccalaureate or Scottish Highers.

The diagram shows an equilateral triangle with some lengths labelled.

Find x

512
1024
x

Enjoy questions like this?

Luke wrote down this equation, in variables x and z, on a piece of paper;

$$\frac{x - I}{9} - \frac{6}{z} = I$$

He then turned his piece of paper through 180°, revealing a second equation in variables x and z. He decided to solve the two equations together as a pair of simultaneous equations.

If, after doing this, he multiplies all the possible values of x together, what does he get?

Then gather a team and pit your mathematical wits against others in this year's Ritangle competition!

Ready to register?
mei.org.uk/ritangle