



# United Kingdom Mathematics Trust

## Junior Mathematical Challenge 2019

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In April, the Mathematics department invited students from Years 7 and 8 to sit the UKMT Junior Maths Challenge. The Maths Challenge is a national competition that encourages mathematical reasoning, precision of thought and fluency in using basic mathematical techniques to solve interesting problems. Although it is a multiple choice test, it is very, very tough!

Over 270,000 high achieving pupils from more than 4000 schools and colleges across the UK participated in the JMC. Student have to answer 25 questions in 60 minutes. Only the top 40% of scorers nationally are awarded certificates with roughly the top 6% receiving a gold certificate, the next 13% a silver and the next 21% a bronze. Congratulations go to our two gold certificate winners: Emilia and Chloe, both in Year 8 and well done to Emilia for also being awarded the Best in School Award.

Pupils at our school achieved: **2 Gold, 8 Silver and 21 Bronze** certificates in this year's JMC which is brilliant news given they are competing against the best mathematicians in the whole of the UK for their age group.

### The winners of the 2019 JMC are as follows:

|                    |                 |                  |
|--------------------|-----------------|------------------|
| Emilia Maciejewska | Chloe Mann      | Madison Creaby   |
| Chloe Kentish-Finn | Grace Pickin    | Matthew McGrail  |
| Stephen Farrer     | Mimi Rogers     | Cameron Lee Sui  |
| Caoimhe Tosh       | Phoebe Carkett  | Faria Sheikh     |
| George Sil         | Rosie Quirk     | James Turkington |
| Samishka Khurana   | Adam Carr       | Omisha Gandhi    |
| Oliver Prince      | Faith Devaruban | Benjamin Wu      |
| Tilly Gower        | Henry Carter    | Dhiaan Bains     |
| Poppy Collyer      | Hayden Badcock  | Da Wei Allen     |
| Henry Dickson      | Sachin Mahil    | Charlie          |
| Alex Riley         |                 | Wallace          |

The Maths department are very proud of all our students that entered the challenge and hope to give more students a chance at the next challenge to reveal the hidden mathematical talent at the school.

Here is a selection of questions from this year's JMC; see if you can do them. Feel free to send in your answers to the school and I will check them and award a small prize to the correct one!

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| <p>5. On Aoife's 16th birthday, Buster was three times her age. On Aoife's 21st birthday, how old was Buster?</p> <p>A 32                  B 48                  C 53                  D 63                  E 64</p>   |
| <p>22. In the multiplication shown alongside, <math>T</math>, <math>R</math>, <math>A</math> and <math>P</math> are all different digits. What is the value of <math>R</math>?</p> <p>A 0                  B 1                  C 5                  D 8                  E 9</p> <div style="text-align: right;"><math display="block">\begin{array}{r} T R A P \\ \times \quad 9 \\ \hline P A R T \end{array}</math></div> |

If you would like to know more about the Maths Challenge please visit: <https://www.ukmt.org.uk/about-us/>

Mr Vahora