

Congratulations to our Year 10 and 11 Mathematics champions.

On 7th February forty of our year 10 and 11 students took part in the Intermediate Maths Challenge - a national competition run by The UK Mathematics Trust (UKMT). This is the UK's biggest national maths competition, last year involving around 600 000 students from 4000 schools from across the country in the three tiers of challenge aimed across the secondary age groups. Students achieving exceptionally high scores can be invited to go on and compete in the Kangaroo competition which has participants from 50 countries around the world.

We are proud to announce an outstanding achievement with a significant number of our students being awarded certification for their performance.

Farhan Kamil-Okedara, Jasmine Pullen and Adeline Coupe all earned a Gold certificate with Farhan qualifying for the Kangaroo competition later this term. Silver certificates were awarded to Gabriel Patterson, Danial Shazad, Joshua Ten-Bruggencate, Patrik Backor, Aiden O'Loughlin, Laila Bieeu, Sam Birkin and Cole Foster. Bronze certificates were awarded to Zion Soanes, Pranathi Kotaru, Natan Siekierka, James Climpson, Dominic Moran, Bethan-Jaye Story, Davincey Ragaven, Adrian Kisiel, Ava Webb and Imran Shah-Simmons. Congratulations to you all.

You might like to have a go at some of the questions yourself. Here are just a couple.

A 24-hour digital clock shows the time in hours and minutes.

How many times in one day will it display all four digits 2,0,1 and 9 in some order?

A 6

B 10

C 12

D 18

E 24



The diagram shows three touching semi-circles with radius 1 inside an equilateral triangle, which each semi-circle also touches. The diameter of each semi-circle lies along a side of the triangle. What is the length of each side of the equilateral triangle?

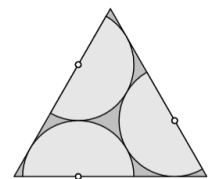
A 3

B $\frac{13}{4}$

C $\frac{3}{2}\sqrt{3}$

D $2\sqrt{3}$

E 4



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(correct answers are: B and D)

And just in case you think this multiple choice system might make for success by lucky guess work, the fiendish ways of the mathematicians at UKMT is to deduct points for wrong answers, so someone simply guessing each answer would expect to gain a final score of zero!