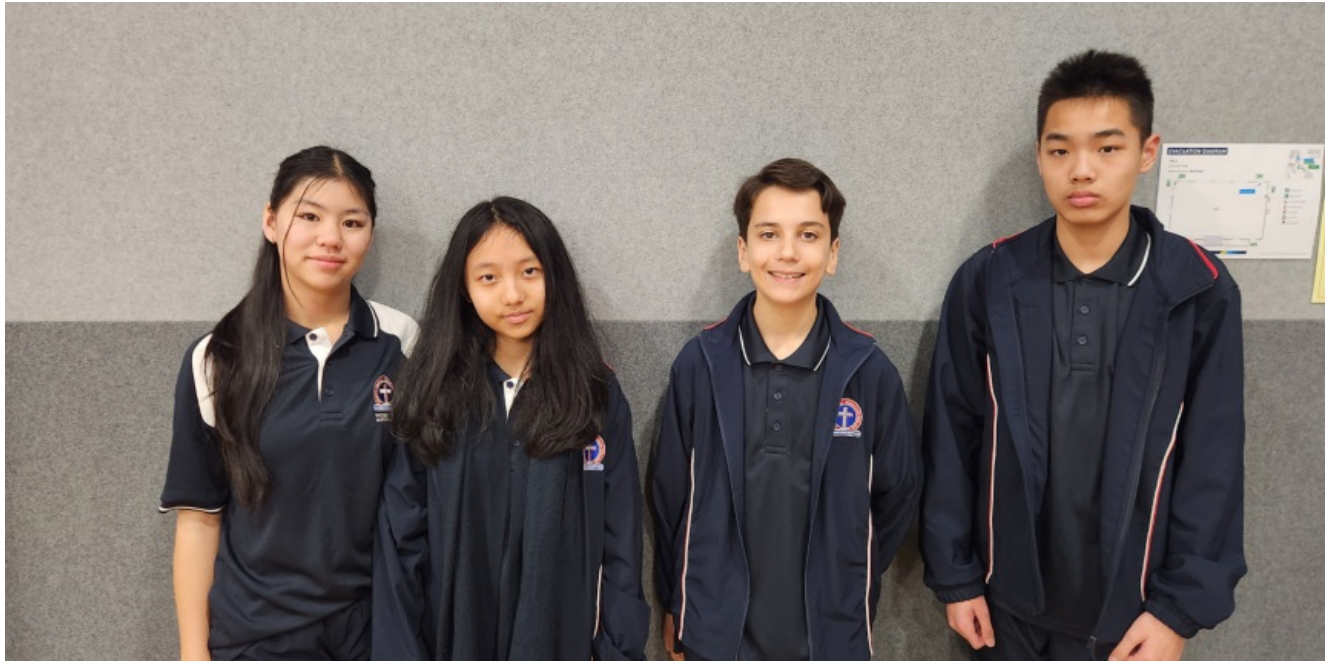




HICES MATHS CHALLENGE

On Wednesday 17 June, Thomas Hassall Anglican College took two Year 7 and two Year 8 students to Richard Johnson Anglican College to compete against teams from a number of other schools in the HICES Maths Challenge. They participated in 3 different activities - the group challenge, the SWISS challenge and the relay challenge.



In the group challenge, Ikshum, Olivia, Noah and Daniel, had to work together to solve 4 problems at a time. Once 2 problems were solved, they were given the next set of 2 questions. There were

a total of 24 questions to be completed in 45 minutes.

The SWISS challenge involved competing against one school at a time. Our students sat in alternate seats and had to determine the algebraic rule linking x and y in a table of values and therefore say what the next number should be. They had 5 seconds to say an answer before it was passed on to the next student from the other school.

For example, what numbers should be in the empty boxes below?

x	1	-15	7	8	-2	23
y	20.2	17	21.4			

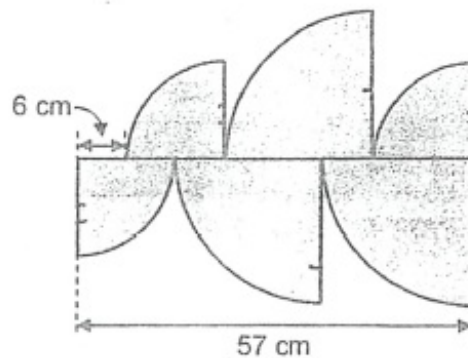
The final challenge was the relay where our Year 7 students worked together to solve a problem to get the next question which our Year 8 students would then collaborate and solve. There were a total of 25 questions to be completed in 45 minutes.

Here's a sample Year 8 question. Can you solve it without your calculator?

The figure is formed by 3 identical small quarter circles and 3 identical big quarter circles. The circumference of a circle is given by $C = 2\pi r$.

By first determining the radii of the two quarter circles, find the perimeter of the shaded figure.

Use $\pi = 3.14$.



Mr Andrew Lim

Senior School Teacher - Assistant Coordinator Mathematics