

**2025**

 **ICAS ASSESSMENTS™**  
**Mathematics**

**High Distinction**

**LIU ZIAN**

**Secondary 2**

**Meridian Secondary School**

A handwritten signature in black ink that reads "Sujata Stead".

**Sujata Stead**  
CEO

# ACADEMIC ACHIEVEMENT RECORD

LIU ZIAN

2025 ICAS - Mathematics

You scored 38 out of 40. Your score was in the top 1 percent of Secondary 2 participants in Singapore.

## ANALYSIS BY QUESTION

The following table shows the questions you answered correctly ☒ and shades the questions that you answered incorrectly ☐. The questions are ranked from hardest at the top to easiest at the bottom.

	Question content	Area assessed	Question number	Your answer	Students correct in SG
Difficult Questions	Solve a problem involving a congruent triangle and its transformation inside a circle	Space & Geometry	39	<input checked="" type="checkbox"/>	4%
	Solve a problem using formulae for the area of a circle and a rhombus	Measures & Units	37	<input checked="" type="checkbox"/>	18%
	Solve a problem using index laws, powers of three and remainders	Number & Arithmetic	40	<input checked="" type="checkbox"/>	19%
	Determine the number of choices needed for an event to occur	Chance & Data	30	<input checked="" type="checkbox"/>	20%
	Solve a problem by finding the equations of two lines	Algebra & Patterns	36	<input checked="" type="checkbox"/>	21%
	Use an algorithm involving squaring and adding	Number & Arithmetic	33	<input checked="" type="checkbox"/>	22%
	Find the area of five faces on a prism and calculate a cost	Measures & Units	21	<input checked="" type="checkbox"/>	25%
	Solve a problem using equations and substitution	Algebra & Patterns	38	<input type="checkbox"/>	25%
	Solve a problem by finding the point of intersection of two lines	Algebra & Patterns	29	<input type="checkbox"/>	27%
	Compare the mean, median and mode of frequency histograms	Chance & Data	19	<input checked="" type="checkbox"/>	28%
Easy Questions	Solve a problem involving the volume of a prism	Measures & Units	31	<input checked="" type="checkbox"/>	29%
	Determine the number of faces and vertices of a 3D shape	Space & Geometry	7	<input checked="" type="checkbox"/>	31%
	Identify a net used to make a cube	Space & Geometry	26	<input checked="" type="checkbox"/>	32%
	Use angle properties of triangles and parallel lines to solve a problem about...	Space & Geometry	28	<input checked="" type="checkbox"/>	32%
	Use a table of values to determine a missing element in a pattern	Algebra & Patterns	34	<input checked="" type="checkbox"/>	32%
	Solve an equation and calculate a probability using a Venn diagram	Chance & Data	35	<input checked="" type="checkbox"/>	35%
	Use properties of arithmetic to determine an algebraic expression	Algebra & Patterns	23	<input checked="" type="checkbox"/>	42%
	Interpret a timetable using 12 and 24-hour time	Measures & Units	9	<input checked="" type="checkbox"/>	44%
	Determine the probability of a multi-stage event	Chance & Data	32	<input checked="" type="checkbox"/>	45%
	Convert square kilometres to hectares	Measures & Units	13	<input checked="" type="checkbox"/>	50%
	Use proportion of sides in similar triangles to find a length	Space & Geometry	15	<input checked="" type="checkbox"/>	52%
	Use substitution to evaluate an algebraic expression with index notation	Algebra & Patterns	27	<input checked="" type="checkbox"/>	56%
	Compare coordinate values of points on a line	Algebra & Patterns	10	<input checked="" type="checkbox"/>	60%
	Interpret and compare the slope of lines on a travel graph	Algebra & Patterns	14	<input checked="" type="checkbox"/>	60%
	Use a scale to find a distance on a map	Space & Geometry	12	<input checked="" type="checkbox"/>	62%
	Use Pythagoras' Theorem and determine a perimeter	Measures & Units	25	<input checked="" type="checkbox"/>	67%
	Solve a problem involving cost, profit and selling price	Number & Arithmetic	18	<input checked="" type="checkbox"/>	72%
	Solve a problem involving capacity and conversion of units	Measures & Units	22	<input checked="" type="checkbox"/>	75%
	Determine the possible number of elements in a sample space	Chance & Data	24	<input checked="" type="checkbox"/>	75%
	Order and compare decimals	Number & Arithmetic	3	<input checked="" type="checkbox"/>	81%
	Select integers that add to a given total	Number & Arithmetic	8	<input checked="" type="checkbox"/>	82%
	Calculate and compare the angle size of sectors in a sector graph	Chance & Data	11	<input checked="" type="checkbox"/>	82%
	Find the sum of two algebraic fractions	Algebra & Patterns	16	<input checked="" type="checkbox"/>	82%
	Find the size of an angle using the angle sum of a straight line	Space & Geometry	17	<input checked="" type="checkbox"/>	83%
	Find a fraction of an amount and express the fraction as a percentage	Number & Arithmetic	6	<input checked="" type="checkbox"/>	86%
	Interpret a double-sided bar graph	Chance & Data	2	<input checked="" type="checkbox"/>	90%
	Determine the next number in a sequence of fractions	Algebra & Patterns	4	<input checked="" type="checkbox"/>	90%
	Convert units of length and find a distance	Measures & Units	5	<input checked="" type="checkbox"/>	90%
	Determine the view from the top of a composite solid	Space & Geometry	1	<input checked="" type="checkbox"/>	93%
	Solve a ratio problem	Number & Arithmetic	20	<input checked="" type="checkbox"/>	94%

Access your detailed results at [www.icasassessments.com](http://www.icasassessments.com). Go to the Results Portal and log in to Student Results. You will need your TAP-ID ( 1112-1049-04 ) and your PIN ( 4073 ) to login.

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