



AUSTRALIAN MATHS TRUST

AUSTRALIAN MATHEMATICS COMPETITION

CERTIFICATE OF DISTINCTION

KOH RUI CHENG, BRENDAN

JURONG PIONEER JUNIOR COLLEGE

YEAR TWELVE

SENIOR DIVISION

2019

A handwritten signature in black ink, reading 'M. G. Clapper'.

Mike Clapper
Chief Mathematician
Australian Maths Trust



CANBERRA MATHEMATICAL ASSOCIATION

A handwritten signature in black ink, reading 'N. Ford'.

Nathan Ford
Chief Executive Officer
Australian Maths Trust

THE SCORING SYSTEM

- **Questions 1 to 10:** 3 points for correct response.
- **Questions 11 to 20:** 4 points for correct response.
- **Questions 21 to 25:** 5 points for correct response.
- **Questions 26 to 30:** 6, 7, 8, 9 and 10 points respectively for correct response.

For all questions, there is no penalty for an incorrect or blank response.

AWARD ALLOCATION

In each year group for each Australian state or each country, certificates of merit are awarded as follows.

	PRIZE	HIGH DISTINCTION	DISTINCTION	CREDIT
MIDDLE PRIMARY	Top 0.3%	Top 3%	Top 20%	Top 55%
UPPER PRIMARY				
JUNIOR				
INTERMEDIATE				
SENIOR	Top 0.3%	Top 5%	Top 25%	Top 60%

A Proficiency certificate is awarded to all students who have achieved a pre-set score but have not been awarded a Credit (or higher) certificate. The remaining students receive Participation certificates. Students receive the highest possible of these two awards.

A Best in School certificate is awarded to a student if the school and student meet the pre-set criteria. It is awarded in addition to a certificate of merit.

Note: These percentages are approximate and may vary according to the number of students in a group and the score distribution.

AUSTRALIAN MATHS TRUST

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September 2019

KOH RUI CHENG, BRENDAN
YEAR 12, JURONG PIONEER JUNIOR COLLEGE
REP. OF SINGAPORE
School Code 58210

Dear Koh Rui Cheng, Brendan

Congratulations. You were one of several hundreds of thousands of students who entered the 2019 Australian Mathematics Competition, one of the world's great competitions.

The following tables show your results. The statistics give you an indication of how you achieved in the different areas of mathematics.

Your score is: Question 1 - 10 30 points
11 - 20 40 points
21 - 30 10 points
making a total of 80 points

This earns you a Distinction certificate and places you in the top 20% of your year in your country or Australian state.

Topic Summary

Topic Area	Abbreviation	Number of Questions	Your Number Correct	State/Region Average Number Correct
Number	Num	5	5	4.6
Algebra	Alg	4	3	2.8
Geometry	Geo	10	6	5.2
Problem Solving	PS	11	7	4.9
Total		30	21	17.5

Your SENIOR DIVISION Paper Results

Question	1	2	3	4	5	6	7	8	9	10
Correct Answer	B	B	D	B	B	C	E	E	B	B
Your Response	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Topic Area	Num	Geo	Num	Geo	Num	Alg	Alg	PS	PS	Num

Question	11	12	13	14	15	16	17	18	19	20
Correct Answer	C	A	D	A	A	D	A	E	E	C
Your Response	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Topic Area	PS	Geo	Num	PS	Geo	PS	Geo	Geo	Alg	PS

Question	21	22	23	24	25	26	27	28	29	30
Correct Answer	C	E	C	C	E	127	997	180	571	390
Your Response	B	A	B	B	B	071	498	-	-	✓
Topic Area	PS	Geo	PS	Geo	Geo	Alg	PS	Geo	PS	PS

Correct answers get a tick (✓), incorrect answers show what response you gave. If you made more than one response '*' is displayed. If you did not answer it '-' is displayed. See the back of your certificate for a description of the scoring system.

Congratulations again on your participation in the 2019 Australian Mathematics Competition. I recommend the AMT resources noted overleaf and at shop.amt.edu.au to support further study of mathematics.

Yours sincerely

Nathan Ford

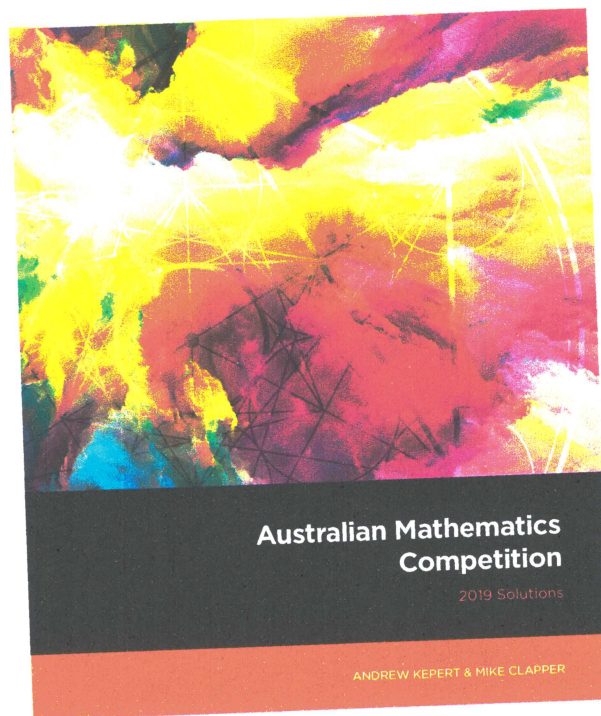
All the problems, with full solutions

2019 Solutions includes the problems and complete solutions to all five papers of the 2019 Australian Mathematics Competition (AMC).

This is a valuable resource for students interested in improving their knowledge of problem solving and their performance in the AMC. This print ready PDF is now available from our online bookshop.

Only \$30 – Licensed PDF

Visit shop.amt.edu.au to order.



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Looking for more?



The **Computational and Algorithmic Thinking (CAT)** is a one-hour problem-solving competition which seeks to identify computer programming potential. It is open to students from year 5 to 12. Students who enjoy thinking their way through to a solution will enjoy this competition.

The CAT is not a programming competition so no programming experience is required. Some questions test the ability to accurately perform procedures, others require logical thought, while the more challenging problems require the identification and application of algorithms.

The inclusion of digital technologies in the Australian Curriculum provides another reason why schools should consider this contest for their students.

To learn more visit www.amt.edu.au/cat-competition

We are leading providers of mathematics and informatics enrichment programs in Australia.

Our vision is to develop a nation of creative problem solvers.

Get more information about the **AUSTRALIAN MATHS TRUST** and our programs at

www.amt.edu.au

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