
MATHEMATICAL ASSOCIATION



supporting mathematics in education

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You shop. Amazon gives.

We've Joined Amazon Smile!

The MA have recently joined Amazon Smile. If you are an Amazon customer you can now make charitable donations to the MA at no cost to you. Just need to use this link: <https://smile.amazon.co.uk> and sign in with your ordinary email address and Amazon password. We will then receive 0.5% of the net purchase price (excluding VAT, returns and shipping fees) so long as you select us as your nominated charity (you only need to pick a charity once and you can change later if you wish). Remember to include the Smile bit in the address each time you order something!



The very first First Mathematics Challenge is almost upon us. You can still order your packs to take part in the Challenge any time during **17th – 21st June, 24th – 29th June, 1st – 5th July**.

If you are a school in London taking part in **London Maths Week**, order your packs **before 3rd June** to have them delivered by 10th June.

Order here: <http://www.primarymathschallenge.org.uk/fmc>

Andrea has 5 coins. Two of the coins are the same.
The total amount of money that Andrea has is less than £1.
What is the largest possible amount of money that Andrea could have?



- A 98p B 97p C 96p D 95p E 94p



2019 is PMC's 20th year and we are celebrating!

The PMC problems team met at the end of April to write and compile the problems for the PMC November 2019 and Bonus Round papers.

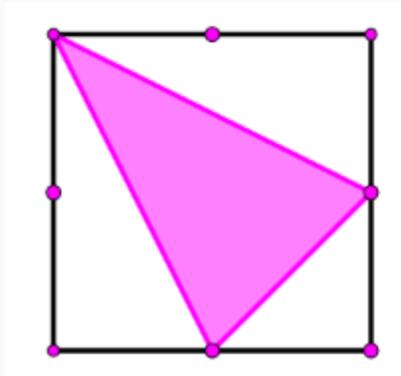
We are excited about the new style of the paper, which has 15 questions at the start which are relatively easy, and we hope that teachers will encourage most of their pupils to take part this year, not just the most able mathematicians. Questions 16-25 are more challenging, as in previous papers.

As ever, our aim is to interest and engage pupils with mathematical processes. The papers are not ready yet and orders will not be despatched until the end of November, but you can place your orders now and will benefit from an Early Bird discount if orders are placed before 11th October.

New Monthly Puzzle

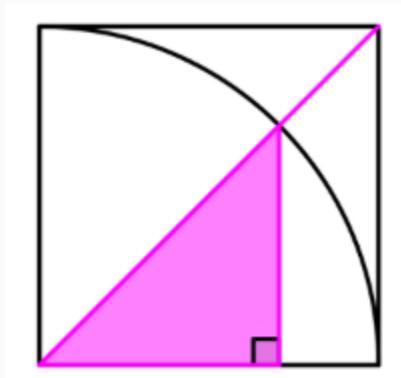
Each month we'll be posting a puzzle for you to use in schools intended for both Primary and Secondary phases - you can use them for your students, staff or even parents! Just copy and paste them directly from the newsletter. We'd love to post a picture or two of them being used. If you'd like to send one, please email an image, a brief description of the school and how you used it to mapublicitymedia@gmail.com.

(Please note this is not a competition and we cannot publish identifiable students. Always ensure you adhere to your school's GDPR guidelines.)



Primary Puzzle

What fraction of the square is shaded by the pink triangle?
Assume dots are vertices and midpoints.



Secondary Puzzle

What fraction of the square is shaded by the pink triangle?

mathsweek
LONDON

The MA are delighted to be involved in this year's Maths Week London. Maths Week London is all about building children's confidence, nurturing a love of maths and sparking an interest in a subject that impacts all of our lives, every day!

<https://www.mathsweeklondon.org/>

Maths Week London Activity

- The Maths Week London website is populated with free resources for schools to use during Maths Week London.
 - The events page lists webinars and events that schools and parents can register to attend.
 - All Head Teachers have been sent a letter in the post encouraging them to become a part of Maths Week London.
 - There are five Maths Week London Partner Schools who will be helping to spread the word amongst schools in their area.
 - Maths Week London has been featured in Education Today.
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Talking Maths in Public 2019

Thursday 29th - Saturday 31st August 2019, Isaac Newton Institute, Cambridge

Talking Maths in Public is a conference for people who work in, or otherwise participate in, communicating mathematics to the public. And that includes teachers -- many maths communicators are or were teachers and many of the ideas are directly applicable in schools. The conference is an ideal opportunity to join us for workshops, discussions and training, to share ideas and get to know each other. We will have Matt Parker (an ex-teacher!), Brady Haran, (creator of the popular YouTube channel Numberphile), a magician to show us how to astonish audiences, and Hana Ayoob will help us create exciting mathematical activities. Visit talkingmathsinpublic.uk for more information and to sign up.



Annual Conference
14-16 April
WYBOSTON LAKES
RESORT, BEDFORDSHIRE
2022
EXPLORATION AND INSIGHTS

The Mathematical Association and the National Association of Numeracy and Mathematics in Colleges (NANAMIC www.nanamic.org.uk) invite you to join us at the stunning Wyboston Lakes for the Annual Conference 14th – 16th April 2020.

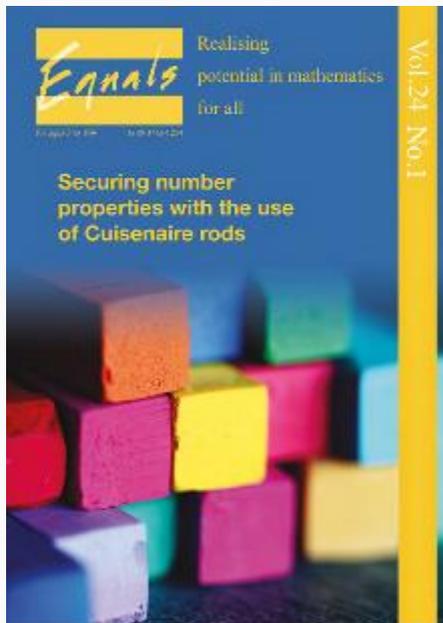
Our conference theme *Exploration and Insights* is intended to offer members an invaluable opportunity to explore new ideas in a lakeside setting designed to maximise face-to-face learning and sharing. As an organisation we are responding to the financial challenges faced by many schools by restructuring our conference packages. Members will soon be able to select from a competitively-priced range of cost-effective options - from half days and single days to the full conference experience – we are particularly excited to offer our innovative ‘middle day’ option offering a full day of classroom-focused workshops, with optional evening BBQ and quiz which we hope will prove very attractive for our teaching members.

Delegates, and their partners, should note that the venue also offers a superb range of leisure facilities and a relaxing spa which are all available at an additional charge. Check out the venue here www.wybostonlakes.co.uk.



Mike Askew's PowerPoint from his Presidential Address at the MA ATM conference 2019, "*Reasoning as a mathematical habit of mind*", is now on the MA website as a PDF and can be downloaded from <https://www.m-a.org.uk/conference-2019>.

It can also be found in the member's area.



New Publications

New issues of Mathematics in School, SYMMmetryPlus and Primary Mathematics have recently been sent to subscribers.

The latest Equals Online is available here <https://www.m-a.org.uk/equals-online>

The index for the forthcoming issue of The Mathematical Gazette can be found here: <https://www.m-a.org.uk/resources/Gazette-Index-Vol-103-557.pdf>



THE GREENWICH MATHS CENTRE

Greenwich Maths Time

University of Greenwich
Tuesday 25 and Wednesday 26 June 2019

The University of Greenwich Maths Centre is delighted to be hosting Greenwich Maths Time, the 2019 IMA Festival of Mathematics and its Applications. We will be presenting two days of exciting mathematical talks, workshops and hands-on activities.

The Festival and all its events are **free**. Anyone is welcome to attend, but advance registration is required.

Come and join Takita Bartlett, Rob Eastaway, Ioanna Georgiou, James Grime, Jonathan Histed, Aoife Hunt, Bobby Seagull, Ben Sparks, Katie Steckles, Colin Wright and many others to explore unusual and surprising maths.



Congratulations Linda!

A special luncheon, organised by Julia Brown, Member Responsible for HQ, was held for Linda Medhurst to mark 25 years employment with the MA.

On Monday, 23rd May 1994, Linda started working as an Administrative Assistant to the Membership Secretary. In 2000 she became the Bookkeeper and in 2006 her job title changed to Finance Officer. Linda has served the MA well not only through her finance work but additionally looking after housekeeping arrangements for Council at the Saturday meetings, and attending all the Annual Conferences to manage the MA Bookstand; all this along with a variety of other HQ related tasks.

Julia Brown, Cherri Moseley, Mike Price, Peter Ransom, Bill Richardson, Mary Walmsley, Alice Hall, Carol Mackerness, Marcia Murray, Charnjit Seehra and Linda's husband, Andrew Medhurst, all joined her to celebrate.



Annual Stirling Conference now in its 14th year!

This brilliant day of professional development will take place on the beautiful campus of Stirling University.

The programme will be led by a keynote from Andrew Jeffrey, and supported with sessions from Chris Smith, Monica Kirson, Adam McBride, Chris Pritchard, Keith Curry and more.

You can download the full programme for the event [here](#).

Branch Events

Date: Saturday, June 8th

Branch: Yorkshire

Title: Maths Mashup

Time: 2pm for 2.30 (followed by YBMA AGM at about 3.30)

Location: the MALL, School of Mathematics, University of Leeds

Summary: Members of the YBMA have ten minute slots to show us some mathematics that they find particularly interesting. We'd love to see you, and if you'd like to share, please feel free to bring some maths along with you.

Date: Monday 10 June 2019

Branch: Cambridge

Title: Every classroom has a mix of attainments and future potentials

Presenter: Mike Ollerton

Time: 4:30-6.00 (Doors open at 4pm)

Location: Faculty of Education, Donald Macintyre Building, 184 Hills Rd, Cambridge CB2 8PQ

Summary: Mike is passionate about making mathematics accessible, interesting and enjoyable to those he teaches so prepare for a hands on session to end the year!

Door Charge: Free to members. Others pay £5

Date: Thursday, 20th June 2019

Branch: Liverpool

Title: Thinking of Applying to do Maths at University? Some things you might need to know.

Time: 5.30pm-6.30pm

Location: University of Liverpool, Lecture Room B, Central Teaching Hub, L69 7BX

Presenter: Colin Mercure, Assistant Principal, Cowley International College and LivMS President.

Summary: The lecture is likely to include: The difference between university maths and A Level maths. Maths admissions tests and which universities will want you to do them. Interviews and which universities are likely to want you to do them. Likely entrance requirements for different universities. Potential careers for students who do maths degrees. What to put in a personal statement. What maths books/films etc to read/view.

Door Charge: This lecture is suitable for sixth-formers and teachers. No tickets. Free to all sixth-formers and members of LivMS, otherwise £4 payable on the door.

Date: Wednesday 26 June 2019

Branch: Exeter

Title: The Symbols and the Symbolised

Time: 6.15 - 8.00 (coffee from 6.00)

Presenter: Pete Griffin – Assistant Director in the Secondary team at the NCETM

Location: Exeter Mathematics School, Rougemont House, Castle St, Exeter EX4 3PU

Summary: We can be lured into thinking that the symbols we use in mathematics are the mathematics itself. During the session we will explore some mathematical situations and think about ways in which learners might be given some control over symbolising these situations themselves. Suitable for teachers of mathematics from upper primary or secondary schools.

Pete started his career as a secondary teacher of mathematics and taught in secondary schools for 8 years, firstly in North London and then in Hertfordshire. He moved into Local Authority advisory work in 1986 first as an advisory teacher and then as a mathematics adviser and remained in this role for 20 years, working in two large local authorities (with a brief secondment to work at the Open University as a lecturer in mathematics education from 1988 to 1990). It is during this time that he became involved in designing professional development opportunities for both primary and secondary colleagues and became convinced of the importance of a rich and varied provision of CPD for all teachers.

Door Charge: Free

Date: Saturday 29 June 2019

Branch: East Midlands

Title: Back of an Envelope Maths - How would you teach this?

Time: 09:30 to 12:15

Location: School of Museum Studies Building, 19 University Road, Leicester LE1 7RF

Summary: This session is going to include a meeting of The Mathematical Association Teaching Committee. Teaching Committee (TC) plays an important role in the MA by giving a voice to teachers through the three sub-committees. Primary, 11-16, Post-16. There will be a chance to discuss the 2019 GCSE and SATs. There will be a visit to the David Wilson Library for MA members to view some of the rare and valuable books held in the MA's 'Special Collection'. It is hoped that you are able to join us and will find the session useful. We will try to get both MA and ATM Bookstalls where you will be able to see a selection of the latest books and resources.:

Door Charge: Free

CPD Event

The Mathematical Association is delighted to invite you to apply for a day of professional development on teaching ratio and proportion at secondary level.

Title: Praying souls out of purgatory: ratio and proportion in the secondary classroom.

Date: Saturday 6 July 2019

Venue: MA Headquarters, 259 London Road, Leicester, LE2 3BE

Presenter: Peter Ransom

Time: 10:00 – 16:00

Summary: A one-day professional development event for all those who are involved in teaching ratio and proportion at secondary level.

Cost: £59 MA members, £84 non-members

The focus of this day will be on teachers and teaching assistants who have to teach ratio and proportion and wish to develop their understanding of the theory and pedagogy behind ratio and proportion. They will leave with a host of ready-made materials to be used in the classroom, some of which will have been developed during the day. The day will be followed up with a 7, 7, 7 set of materials (materials sent out 7 days, 7 weeks and 7 months later) to help with participants' teaching of ratio and proportion.

Online booking now [open](#).

The MA is an accredited NCETM mathematics CPD provider.



Compiled by [Ed Southall](#)

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