



The Mathematical Association  
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## March 2019

### Advertisement

#### A Level Examiners

Pearson have exciting opportunities for qualified Mathematics teachers to become examiners for our GCE A Level qualification. This is an excellent opportunity to:

- Develop your career in education
- Earn some extra money in a part time role, alongside any full time commitments you may have.
- Gain invaluable insight into assessment.



To find out further information please visit

[https://home.edexcelgateway.com/pages/job\\_search\\_view.aspx?jobId=2697](https://home.edexcelgateway.com/pages/job_search_view.aspx?jobId=2697)



#### MA Annual General Meeting

Members of The Mathematical Association are invited to attend the MA Presidential Address and the AGM which are being held on Tuesday 16th April 2019 at 2.00pm and 5.45pm respectively. They will take place at the MA/ATM joint conference at [Chesford Grange Hotel](#), Warwick, CV8 2LD. Members are very welcome at both events whether or not they are taking part in the wider conference. The agenda for the AGM is on the MA website at <https://www.m-a.org.uk/Annual-General-Meetings>. It's not too late to [book a ticket](#) for the conference too.

## First Mathematics Challenge

The First Mathematics Challenge (FMC) has been specifically created to give all pupils in Years 3 and 4 in England and Wales, P4 and P5 in Scotland and Years 4 and 5 in Northern Ireland, the opportunity to take part in a National Challenge.



The FMC has been created for all your younger pupils. It is our intention that mathematics is portrayed as enjoyable, stimulating and engaging for younger pupils and the FMC should provide an entertaining yet educational ending to the school year.

The Challenge can be taken during a three week period:


17th - 21st June

24th - 29th June

1st - 5th July

There will be a total of 20 multiple choice questions, they will start with easy questions to encourage pupils in their own ability and gradually get harder throughout the paper. Pupils will have 45 minutes to do the paper.

The paper will encourage your pupils to think outside the box and approach questions in a logical manner. Here is an example of the sort of questions you can expect:



In the calculation below, which number could go into the empty box to make the calculation correct:

$$\square \times 6 = 19 + 23$$

**A** 6      **B** 7      **C** 5      **D** 42      **E** 2

Find out more at [www.primarymathschallenge.org.uk/fmc](http://www.primarymathschallenge.org.uk/fmc).

## ICME Event

The London Mathematical Society invites you to a free one day professional development event for all those who are interested in attending ICME-14 in Shanghai next year July. The event takes place in London on Saturday 6<sup>th</sup> April 2019.



The focus of this day will be on teachers of mathematics at all levels from primary through to university research who wish to develop their understanding ICMEs and perhaps apply to attend the next one in Shanghai. They will leave with some knowledge about this global event and perhaps a wish to collaborate with others in presenting any research they have undertaken and wish to present to a wider audience.

[Click here](#) for more information and to register.

### Ratio CPD

If you teach ratio and proportion at secondary level then you are invited to attend the one-day professional development event "Praying souls out of purgatory: ratio and proportion in the secondary classroom". It takes place on 6th July 2019 in Leicester. [Online booking](#) is now open.

### Stirling One Day Event

Booking is now open for the One Day Conference for Teachers of Mathematics on the 5<sup>th</sup> October 2019 at the University of Stirling.

<https://www.m-a.org.uk/one-day-events>



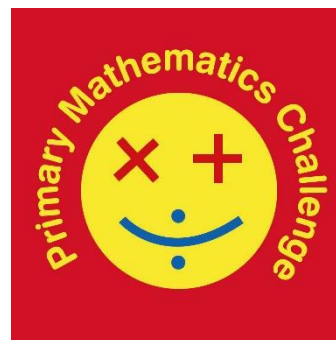
### Save the Date for the 8<sup>th</sup> Primary One Day Conference

The Mathematical Association in cooperation with Bucks, Berks and Oxon Maths Hub will hold the Eighth Annual Primary Professional Development Day on **Saturday, 12<sup>th</sup> October 2019**. The Keynote Speaker will be **Ems Lord**.

The MA is an accredited NCETM mathematics CPD provider.

## Primary Mathematics Challenge

We were very pleased to see so many children taking part in the Primary Maths Challenge in 2018/2019. Roughly 67,000 pupils from just under 1600 schools took part in the November round of the PMC and we were happy to invite 2375 pupils to take part in the Bonus Round. Of these 2375 we awarded 1496 badges and certificates to Gold, Silver and Bronze winners. Just two pupils scored an incredible 25/25! You can give the paper a go [here](#).



In 2019 The Primary Maths Challenge turns 20! To celebrate we are giving schools 20% off PMC packs...which means when ordering together with Early Bird Discount you can enter all your pupils this year!

We have made the first 15 questions of the 2019 PMC slightly easier, we would like all your pupils to be able to tackle the paper this year. The last 5 questions will continue to be the brain scratchers that you know and love!

To find out more, go to [www.primarymathschallenge.org.uk](http://www.primarymathschallenge.org.uk).

Check our website for birthday surprises throughout 2019!

We have already given away over 100 copies of Raising the Profile to our PMC schools...if you would like a free copy you can find it in the MA shop here: <https://members.m-a.org.uk/Shop/product/18>.



## Branch Events

**Branch:** Yorkshire

**Title:** *To Infinity and Beyond*

**Presenter:** Dr Katie Chicot (Open University/MathsWorldUK)

**Date:** Wednesday, 3<sup>rd</sup> April 2019

**Time:** 2.30-3.30pm

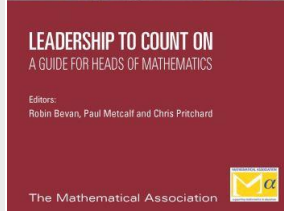
**Summary:** W P Milne Lecture for Sixth Formers

**Venue:** University of Leeds, Leeds LS2 9JT

**Contact:** Bookings are now closed. Enquiries to [festivalofscience@leeds.ac.uk](mailto:festivalofscience@leeds.ac.uk).

**Cost:** Attendance at this lecture is free.

## Publications



### [Leadership to Count On](#)

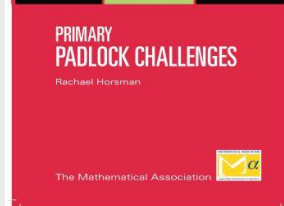
Edited by Robin Bevan, Paul Metcalf and Chris Pritchard

Leading a mathematics department is a challenging and rewarding task and at the outset it can be daunting.

This book offers clear advice to subject leaders who have the potential to serve as role models for other teachers of mathematics. Written by a team of experienced subject leaders, it provides authoritative recommendations, practical examples and detailed case studies. Leadership to count on has been updated to take account of recent advice and guidance as well as curriculum changes.

**Members £9.80**

**Non-Members £14.00**



### [Primary Padlock Challenges](#)

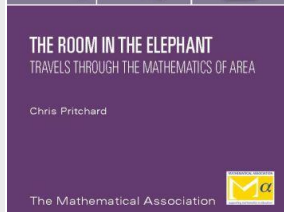
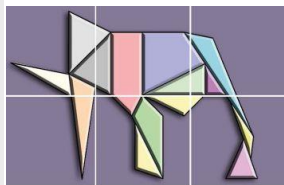
Rachael Horsman

This exciting new book by Rachael Horsman follows the same format as the very successful secondary series. It has a comprehensive set of worksheets from which teachers can construct challenges. Each challenge is constructed to enable students to gain in confidence and skills. The conclusion of each challenge is a number determined by their answers and collectively these lead to the combination for a padlock. The route to opening a

designated treasure box secured with a chain and combination lock follows. Find the combination - gain the treasure within.

**Members £6.30**

**Non-members £9.00**



### [The Room in the Elephant](#)

Chris Pritchard

This book continues the journey through the geometry of common shapes and the calculation of area that was begun in **A Square Peg in a Round Hole**. Written to be accessible to an able and interested 18-year old, it aims to appeal to students and teachers of mathematics and to anyone with a fascination for the subject.

Did Archimedes really play with tangrams a thousand years before their appearance in China? Why were building blocks developed in Germany decades before LEGO made its entrance? What advantage is there in making the paths around your garden 2 m wide? Discover Georg Pick's method for finding areas on a grid of points, play with Kürschák's tiles, help Mary Boole with her needlework and explore Japanese temple geometry. Then tackle the multitude of problems in the final chapter.

**Members £12.60**

**Non-members £18.00**

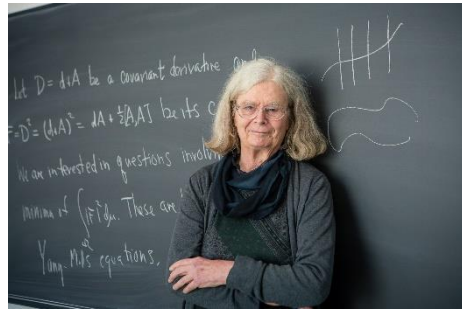
## Maths Week London

The Mathematical Association is delighted to be involved in this year's Maths Week London. Maths Week London takes place in June and 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! See [mathsweeklondon.org](http://mathsweeklondon.org) for details.

**mathsweek**  
LONDON

## The Abel Prize

On 19<sup>th</sup> March 2019 mathematician Karen Uhlenbeck became the first woman to win the prestigious Abel Prize. She has been awarded the 6 million Norwegian kroner prize for her work in the fields of gauge theory and geometric analysis, which have been credited with far-reaching impact in both mathematics and physics.



*Compiled by Jo Morgan*