

MATHEMATICAL EDUCATION ON MERSEYSIDE

Registered Charity no. 517028



ORBITER

2021
APRIL

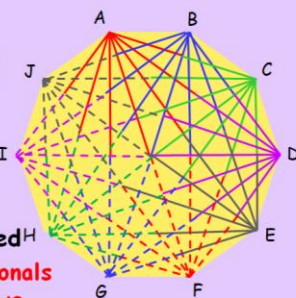
MEM Orbiter can be downloaded free of charge from www.mathsmerseyside.org.uk/

Sixth Form Pop Maths Quiz

Alternative solution: Work round the vertices systematically, ignoring any diagonals already found

A 7 (red) B 7 (blue)
C 7 (green) D 7 (magenta)
E 7 (grey) F 7 (red dashed)
G 7 (blue dashed)
H 7 (green dashed)
I 7 (magenta dashed)
J 7 (grey dashed) Total = 70

All diagonals have been counted twice, so the total is 35 diagonals
For n vertices, total = $n(n-3)/2$



The seventeenth Annual LivMS Quiz was held on **Saturday 6th March 2021 by ZOOM**, and was organised by Barry Grantham, Tony Carter, and Ian Jarman.

The Quiz was attended by **139** students in **36** teams from **15** schools, based in Merseyside, Wirral, Cheshire, Lancashire, Yorkshire, East Anglia, Essex and the Channel Islands.

No cash prizes were awarded this year but all participating teams received certificates.

<http://www.livmathssoc.org.uk/cgi-bin/sews.py?PopMathsQuiz>

CORONAVIRUS ANNOUNCEMENT

Future events listed in this April Orbiter have been planned in the hope that circumstances will improve to enable them to take place. All events are conditional upon the UK government's guidelines on personal safety and social distancing being met, and the host institutions' policies at the time. Should cancellation of an event become necessary, as much notice as possible will be given via the MEM and LivMS websites.

MEM Masterclasses 2021

The thirty-first series of MEM Masterclasses will take place in the Autumn Term on **four** Saturdays starting in October 2021. Full details can be found at www.mathsmerseyside.org.uk/

If you wish to nominate up to **four** pupils from your school who are at present in **Y7** or **Y8**, the application process will open after half term on **7th June 2021** and will close on **8th October 2021** at:

www.mathsmerseyside.org.uk/Masterclasses.html **Don't delay. Places are limited and will fill up very quickly.**

FunMaths Roadshow

Version 6 (in English and Welsh) is available as a download and payment can be deferred. Once purchased, **schools are welcome to adapt Roadshow activities** and make them available for their own students to work on at home. Go to <http://www.livmathssoc.org.uk/cgi-bin/sews.py?FunMathsRoadshow>

Maths Booster videos

The Maths Outreach and Widening Participation teams at the University of Liverpool have collaborated with current students on their STEM degrees to produce some short Maths Booster videos on topics identified by schools as areas where their GCSE and A-Level students struggle. The YouTube playlist is at <https://www.youtube.com/playlist?list=PL45W8yW3tH7ROKlxsg7EPphwk7jgnIFB2>

Feel free to share these with your colleagues and students!

Liverpool Mathematical Society



Presidential Lecture:

Studying maths to smash the glass ceiling

Gaynor Bahan, LivMS President and Regional Lead (Lancashire and West Yorkshire) of NCETM

Thursday 22nd April 2021
14:00-15:00 online

Suitable for Yr. 9 and up, and teachers
http://www.livmathssoc.org.uk/cgi-bin/sews.py?Event_20210422_Popular_Lecture/

Contact MEM

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MEM Secretary: Kerrie McCaffrey
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Challenge, Senior Challenge, and LivMS Open Challenge

These **take-home competitions** for pupils in age groups **Years 7/8, 9/10** and **13 and below** were held in the February half-term 2021

The three competitions attracted over **825** entries from **127** schools and the Nature-themed questions were illustrated by Theo Chaddock (Challenge and Senior Challenge) and Peter Ackerley (Open Challenge). Details:

www.mathsmerseyside.org.uk/
www.livmathssoc.org.uk/

LivMS Bursaries (up to £500 each) are available for teachers and students. **Imaginative projects designed to help with problems associated with COVID-19 are most welcome at this time, on a first-come first-served basis.** Details: www.livmathssoc.org.uk/ click on 'Joyce Hatton Memorial Bursaries'

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