International Day of Mathematics
Maths for a Better World

Journey of Cocoa competition

Challenge 1

You are a cocoa grower in Brazil.

Make a sales pitch to a (real) chocolate company, persuading them to buy your cocoa rather than cocoa from another country. This should be presented as a poster.

Use distances and comparative data. It should be clear which company you have chosen and why.

Challenge 2

Present a solution to the transportation problem. You can choose the smaller 3 suppliers and 3 growers, or the larger 5&5 problem.

You should demonstrate **why** your solution is better than an alternative, *and/or* **how** you know your solution is the best.

You are welcome to use technology to find a solution, but this is not required. Your solution should be no longer than one side of A4.

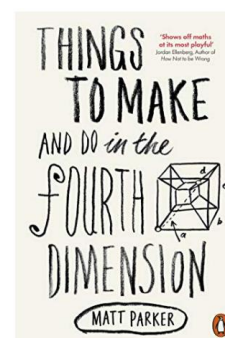Entrants can choose 1 but **not** both challenges.

Prizes

The 1st prize is a Turing Tumble, kindly donated by Turing Tumble.

These are computers powered by marbles, perfect for learning and playing mathematically in the classroom.

We have one prize per class with suggested class activities.

We also have signed books by Matt Parker and π themed stationary as prizes.

MEI & AMSP International Day of Maths Competition 2021 Rules

International Day of Maths is on the 14 March. To celebrate this, MEI and AMSP are running an IDM Competition to complement the activities. For full resources and details see *mei.org.uk/idm*

Theme and judging criteria

The theme of the International Day of Maths is "Mathematics for a Better World".

Entries will be judged on the following criteria:
- quality of communication
- use of maths
- interpretation of the theme: "Mathematics for a Better World"

Prizes

There will be prizes in each of four age categories:
- school years 5-6
- school years 7-9
- school years 10-11
- school years 12-13

First Prize:
- A Turing Tumble for each age category, kindly donated by Turing Tumble for use in the classroom.

Runners up Prizes:
- Signed books by Matt Parker (KS4&5) and Ed Southall (KS2&3)
- Mathematical stationary celebrating π

Competition details
- Entries are open to all schools and colleges in England.
- Students will be judged in one of three age categories: years 7-9, years 10-11 and years 12-13.
- The judging panel will consist of staff from MEI.
- By submitting an entry to the competition students are giving permission for their poster to be displayed on the MEI website.
- MEI will contact schools/colleges prior to publishing art online to ask how the student should be credited. No student or school/college names will appear online without permission. Our full privacy notice can be viewed at: *mei.org.uk/privacy-notice*
- Teachers are expected to ensure that each entry is the student's own work.
- We cannot accept images that are similar to copyrighted material. For example, the posters should not depict cartoon characters whose image is copyrighted.

How to enter
- The list of entries from a school/college must be submitted from a school/college email address.
- Entries must be submitted by teachers listing each student's name, year group, the name of the school/college and the attachments should be clearly identifiable to each student.
- A maximum of one entry per student is permitted.
- Entries should be emailed to *competitions@mei.org.uk* with the subject line: *MEI IDM Competition*
- Closing date for submissions is 10am on Monday 22 March 2021.