



DCBEAGLE Challenges
BEYOND THE TEXTBOOK
December 2018

Do have an enjoyable break and happy puzzling!

Maths Jam Gathering 2018

Once again I spent a weekend at the Gathering and absorbed myself in the recreational maths activities provided by like-minded people. There were over 40 speakers but they only had 5 minutes to put their point, their theory or outcome forward. In the evening the tables turned into games tables, demonstration areas and mathemagic auditoriums.

There are monthly Math Jams around the UK and other countries – click [here](#) - all with the emphasis on recreational maths. Very few teachers attend them and I thought there was room for towns and cities to form Jams for all (educationalists, parents and others) who are interested in recreational maths at the primary school level. Your thoughts please. I will help setting them up and giving you ideas. For many it is a good excuse to visit the local pub!

Much was gained that weekend.

Puzzle for the month

The running track

Two men recently ran a race round a circular course, going in opposite directions. Brown was the best runner and gave Tompkins a start of one-eighth of the distance. But Brown, with contempt for his opponent, took things too easily at the beginning, and when he had run one-sixth of his distance he met Tompkins, and saw that his chance of winning the race was very small. How much faster than he went before must Brown now run in order to tie with his competitor?

Games to play over Christmas

I have found collections of dice and / or card games which would entertain primary school pupils over the Christmas break and the investment is very cheap. On Ebay you can purchase 100 dice for less than £4 and packs of playing cards for 80p.

Leading up to the festive break you could organise a project for interested pupils to play the activities and give them a rating. As well as that they could teach younger pupils the processes of the games.

Dice Game Depot – click [here](#).

A compendium of dice and card games. 7+ years

Fun Attic – click [here](#).

A compendium of dice and card games. 7+ years. There is also a large list of games for children and adults, not all mathematically based. There is a section on Multiplication games.

Pips – click [here](#)

A compendium of dice and card games. 7+ years.

Highest value in Scrabble

A great task for your pupils, especially the ones who are not fans of the subject. Using seven tiles from a Scrabble bag which number, written as a word, had the highest value? I do not have the solution so any results will be welcome.

1 point: E x24, A x16, O x15, T x15, I x13, N x13, R x13, S x10, L x7, U x7. **2 points:** D x8, G x5 **3 points:** C x6, M x6, B x4, P x4 **4 points:** H x5, F x4, W x4, Y x4, V x3 **5 points:** K x2 **8 points:** J x2, X x2 **10 points:** Q x2, Z x2.

Spring Term- DCBEAGLE Challenges

Thursday	17 January 2019	Year 4 Maths	Bryanston School, Dorset
Friday	18 January 2019	Year 6 Maths	Bryanston School, Dorset
Monday	21 January 2019	Year 5 Maths	Portsmouth Grammar Junior
Tuesday	22 January 2019	Year 6 Maths	Eagle House, Berkshire
Thursday	24 January 2019	Year 5 Maths	Bristol Grammar School - full
Friday	25 January 2019	Year 4 Maths	St Faith's Cambridge
Monday	28 January 2019	Year 4 Maths	St Gabriel's Newbury - private
Tuesday	29 January 2019	Year 4 Maths	Red Maids' High, Bristol - full
Thursday	31 January 2019	Year 4 Maths	Ryde School, IOW
Thursday	31 January 2019	Year 5 Maths	Ryde School, IOW
Monday	04 February 2019	Year 6 Maths	St John's Beaumont
Tuesday	05 February 2019	Year 4 Spell It!	Eagle House, Berkshire
Wednesday	06 February 2019	Year 6 Maths	Harvington Prep, London W5 - private
Friday	08 February 2019	Year 5 Maths	St Gabriel's Newbury - private
Monday	25 February 2019	Year 5 Maths	Belmont (Mill Hill)
Tuesday	26 February 2019	Year 5 Maths	Cranford Oxfordshire
Thursday	28 February 2019	Year 4 Maths	Christ's Hospital, Horsham - full
Friday	01 March 2019	Year 5 Maths	Wrekin College Shropshire
Monday	04 March 2019	Year 4 Maths	Gayhurst, Bucks - full
Tuesday	05 March 2019	Year 4 Maths	West Hill Park, Fareham
Thursday	07 March 2019	Year 5 Maths	Elmhurst School, Croydon
Monday	11 March 2019	Year 6 Maths	Orley Farm, Harrow
Wednesday	14 March 2019	Year 6 Maths	The Choristers School, Durham – not confirmed
Friday	15 March 2019	Year 6 Maths	St Gregory's, Harrow - private
Monday	18 March 2019	Year 5 Maths	Abbot's Hill Hemel Hempstead - full
Tuesday	19 March 2019	Year 5 Maths	Wolverhampton Girls' High
Thursday	21 March 2019	Year 4 Maths	Lambrook, Bracknell
Wednesday	27 March 2019	Year 5 Maths	Christ's Hospital The Guildhall in London - Private
Thursday	28 March 2019	Year 5 Maths	The Paragon School, Bath

As you can observe it is a busy term for the challenges and several of them are reaching their capacity with registrations. When booking please check the school diary because recently, on several occasions, there have been cancellations because of a clash. This is unfair for the schools on the waiting list. Click [here](#) to register for any of the above challenges.

Runners solution

20¼ times faster

Mathematical Advent calendars

NRICH always produced good calendars but they have not released this year's one yet. Click [here](#) to find an archive of them,

See you in 2019!!

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