



DCBEAGLE CHALLENGES

BEYOND THE TEXTBOOK = MATHS WEEK.IE

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This newsletter is different and **it is for you** and hopefully your amusement.

FLATLAND: A Romance of Many Dimensions

This masterpiece of science (and mathematical) fiction is a delightfully unique and highly entertaining satire that has charmed readers for more than 100 years. The work of English clergyman, educator and Shakespearean scholar Edwin A. Abbott (1838-1926), it describes the journeys of A. Square [*sic – ed.*], a mathematician and resident of the two-dimensional Flatland, where women-thin, straight lines-are the lowliest of shapes, and where men may have any number of sides, depending on their social status.

Click [here](#) for a PDF copy

SPHERELAND (the follow up to Flatland) click [here](#) for the PDF edition

MATHS RELATED FILMS - click [here](#)

YOUTUBE FUNNIES

Mr Bean - the exam - click [here](#)

Matt Parker - The Greatest Maths Mistakes - click [here](#)

Victor Borge - Inflation - click [here](#)

TWO PUZZLES

These puzzles have been taken from a periodical called "Tough Puzzles" from Puzzler (click [here](#)). It is a quarterly magazine with a wide variety of activities which can be challenging. Do visit the website because they publish many types of puzzling periodicals which could be useful in your lessons.



21 Round Table

Barbara Holmes

Euroworld is a large chain of department stores with 83 branches spread across eight countries in Europe. Last week they called a meeting of the chief executives of each country to discuss progress and to establish their most profitable departments. The meeting was held at their head office with the eight people concerned seated at a large circular table. Vincent, who chaired the meeting, occupied the seat at the north end of the table. He had a lady seated on each side of him, neither of them coming from Spain or being responsible for six stores.

Theresa looks after three times as many stores as Maria and half as many again as Carl, who sat on Anna's right. The largest number of stores is in France, which is not the country where furniture proved to be the best seller, nor is it Thomas's area of responsibility. Sabina, who looks after twelve stores, sat opposite Anna, who was between the UK representative and the man who reported the toy departments to be his most successful operations. Italy proved to be a good area for the sale of perfumery, Belgium has five stores and Theresa reported good profits for her menswear departments; she sat next to Thomas. The man who supervises nine stores sat opposite Paul, with the lady executive from Germany on his right. She was three seats away from the UK manager who sat opposite the man from Portugal. Shoes sold well in the country with eight stores, whilst

ladies' wear, children's wear and TV and Radio departments also did well in other countries. The smallest number of stores in any country is five and even the greatest is less than twenty. Thomas controls fewer than the Italian and two more than Anna. The representative from the Netherlands sat opposite the lady who reported good sales in the TV and Radio department and the Belgian lady sat opposite the person who controls fifteen stores in Spain. TV and furniture sales were best in twice as many stores as ladies wear and children's wear respectively. Match each delegate to their position around the table, showing how many stores they supervise, in which country they work and their most profitable departments. Seats around the table are labelled clockwise alphabetically, starting with Vincent at seat A.

32 Alphacipher

Aha

The numbers 1 to 26 have been allocated randomly to the letters of the alphabet. The letter values of the words have been added together to give the word values. For example, CASH might comprise C=12, A=2, S=10 and H=16, or any other combination of numbers totalling 40. The theme this time is TENNIS PLAYERS - what is the value of Y?

A	
B	
C	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	

N	
O	
P	
Q	
R	
S	
T	
U	
V	
W	
X	
Y	
Z	

AGASSI	46	GARRISON	47
AUSTIN	46	HARBOE	53
BARKER	51	HINGIS	60
BUENO	43	JONES	47
CAPRIATI	54	LAROSE	34
CASH	40	MARTINEZ	75
COETZER	54	MELZER	62
COSTA	33	PUERTA	48
COURIER	25	RAFTER	33
COX	33	ROSEWALL	69
DAVENPORT	79	SELES	39
EDBERG	57	WILDING	77
ENQVIST	73	WILLIAMS	82
ESCUDE	41		
FEDERER	35		

