



Gordon Burgin's Puzzles

April 2018 challenge

MIND-Xpander Numeric Puzzles

1. The dimensions of one box are all two-thirds of the dimensions of another. If the volume of the smaller is 64 cubic centimetres, what is the volume of the larger box?
2. Arrange the digits 1, 2, 3, 4 and 5, using only plus & minus signs (addition & subtraction), so that they will total 111. Using the same instructions, arrange the digits for totals of 222, and 333. (Note: There may be more than one solution)

EQUATE-Sums Puzzle

Can you work out what each of the four symbols are worth? The totals of the three columns are given. Can you also work out the missing total?

○	☆	☆	○
△	☆	○	△
☆	○	○	☆
○	☆	○	△
126	155	145	?

EQUATE- TakeAway Puzzle

The missing numbers are between 1 & 9. The three numbers in top columns, when subtracted by the lower two numbers, equals the three totals along the bottom, and the three numbers in the left rows, when subtracted by the right two numbers, equals the three totals at the far right. The top left number, when subtracted by the lower two numbers on its diagonal, equals the total in the bottom, far right box. With one number provided, solve the puzzle by finding all missing numbers that satisfy all the results as shown.

8			=	-1
			=	-2
			=	-6
=	=	=	=	
-3	-3	-7	=	-6