



Gordon Burgin's Puzzles

April 2024 challenge

Puzzle One

A magic rectangular cloth always shrinks its length to $\frac{1}{2}$ and width to $\frac{1}{3}$ whenever its owner wishes something. After three such wishes, its surface is now 4cm^2 .

What was the original length if the original width was 9cm?

Puzzle Two

A bag containing coins of 1 dollar, 50 cents and 25 cents in the ratio 3 : 5 : 7. The total amount is \$1,856.00. Find the number of coins for each denomination.

Puzzle Three

Below is a special safe's keypad. To open, you must press the keys in the correct sequence until the last key marked 'OPEN'. The number on each key tells you how many keys that you must move and the letter tells you in which direction to move (U = up, D = down, L = left and R = right). Which key is the first key in the sequence that you must press to open the safe?

3R	3R	5D	1L	5D	1D
1R	2R	2R	4D	1D	2D
1U	2U	1U	1L	3L	5L
2R	1L	3D	1U	OPEN	1D
4U	3R	1L	1U	1L	5L
1D	4R	2L	1D	3L	3U
4R	3U	3R	2L	3U	6U