

Puzzlon Set-2

1. Card Trick

(15 points)

	30 ↓	37 ↓	28 ↓
30 →	a1 9	a2 5	a3 1 6
28 →	b1 1 5	b2 1 2	b3 1
37 →	c1 6	c2 2 0	c3 1 1

14 cards with digits are placed to make a 3x3 grid of numbers. The totals for the numbers in each row and column are given. Pick up two cards and place them back anywhere in the grid (still face-up) so that the six totals become equal.

(Send your solution as a1 = ..,a2=.. and so on)

2. What a Day

(10 points)

Find the correct sequence.



3. La Equation

(15 points)

Fill in the eight missing digits so that the equation is correct and uses each of the digits from 0 to 9.

$$\begin{array}{r} 7 \\ \hline \square \end{array} = \begin{array}{r} \square \square \\ \hline \square \square \end{array} + \begin{array}{r} \square \square \\ \hline \square 5 \end{array}$$

4. Kakuro

(20 points)

In this puzzle you need to fill in the blank (light blue) squares with a number from 1 to 9, but each run of numbers (across or down) can only contain each number once. A number in the bottom half of a box gives a downwards total, and in the top half refers to a horizontal total. The aim is to enter digits in each empty grid so that the across and down total is satisfied.

For details refer <http://www.kakuro.com/howtoplay.php>

	29	36		14	6	5		
11			15				29	14
12			17 9					
15						10 7		
23					5			28
	7 15			20	15 8			
12			19 11					
34						13		
		6				17		

(send your solution as a list of numbers like
 32145
 8769453....)

5. Arrows

(20 points)

Draw arrows in the squares around the large square. Each square has one arrow and each arrow points to at least one number. The numbers indicate how many arrows point to them. The arrows can be oriented horizontally or vertically or diagonally.

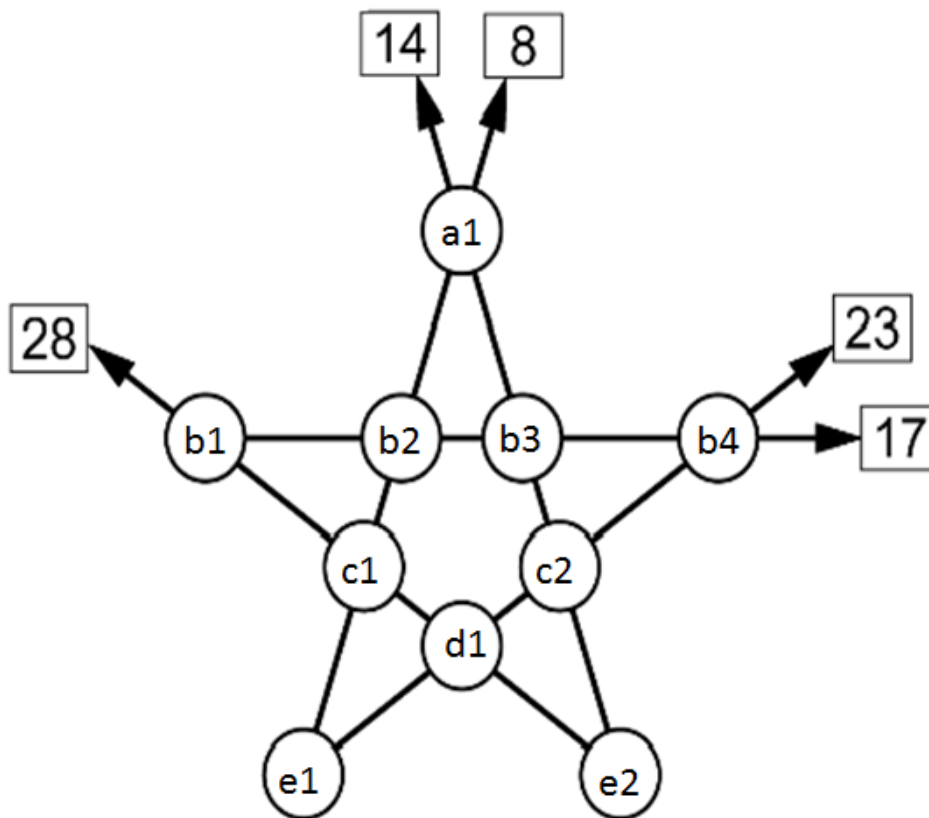
	2	3	0	1	3	1	
	2	1	2	1	2	3	
	3	4	3	4	4	5	
	3	4	3	3	6	3	
	3	1	1	2	1	4	
	4	4	2	1	4	4	

(The above image will be uploaded along with the problem set. Copy the image to paint and draw the arrows)

6. Sum Star

(20 points)

Place each of the digit 0 through 9 into the empty circles (one per circle) so that the sum of the numbers in each line is equal to the corresponding given number.



(Send your solution as a1 = .., b1 =.. and so on)

(The deadline for the event is 26th January 2011)

(Send your solution to puzzlon@gmail.com in a pdf or word format with your subject as Puzzlon-Set-1 followed by your **user name** in ELAN)