

# Zonal Informatics Olympiad, 2012

## *Solutions*

<b>Question 1</b>			
	Min $N$	Max $N$	Colour of last ball (Black/White/Either)
(a)	28	28	White
(b)	57	57	Black
(c)	160	160	White

### Partial scores:

- Only min  $N$  and max  $N$  correct: 2 marks
- Only colour of last ball correct: 2 marks

<b>Question 2</b>	
	$K^{th}$ row of arrangements adding up to $S$
(a)	2 1 3 3
(b)	3 4 1 1 2
(c)	2 1 1 7 2 1

<b>Question 3</b>		
	Number of red cells	Smallest number among red cells
(a)	9	40
(b)	9	93
(c)	8	78

### Partial scores:

- Only number of red cells correct : 2 marks
- Only smallest number among red cells correct: 2 marks

<b>Question 4</b>	
	Original sequence in which cartons arrived at the shop
(a)	47 8 22 12 95 11 86
(b)	54 50 6 39 63 98 34 66 52
(c)	28 12 40 33 22 47 95 86 11 8 78