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2009 IMISO Answers

SHORT ANSWER

1.	4	2.	4	3.	34	4.	$\frac{3}{4}$	5.	21
6.	23	7.	Dennis	8.	30	9.	62	10.	36
11.	1st column, 502nd row	12.	288	13.	3 : 4	14.	7	15.	3
16.	1	17.	46	18.	7	19.	21	20.	42857
21.	5	22.	18	23.	56	24.	182720097	25.	264

ESSAY PROBLEMS

1.	104		2.	6		3.	60 km/h			4.	$\frac{780}{11}$	
5.	45		6.	105°		7.	Bob's earn = \$60 Ivan's earn = \$87.5			8.	0.6 kg	
9.	19	10.	60	11.	30	12.	34	13.	15			

EXPLORATION PROBLEMS

1.	21453, 21534, 23154, 23514, 24153, 24513, 25134, 25143 31254, 31524, 31452, 34152, 34512, 35124, 35214, 35412, 41253, 41523, 41532, 43152, 43512, 45123, 45132, 45213.			2.	(a) 10														
					(b) 45														
					(c) 1275														
3.	Day		Task			Helper													
	1		9. C (remaining task)			4.Ali (from 1)													
	2		3.A (from 1 and 3)			2.Benny (from 2)													
	3		5.E (from 3 and 5)			6. Dennis (from 5)													
	4		8. D (from 4)			7. Charlie (from 4)													
	5		1.B (from 2 and 3)			10. Ethan (remaining helper)													
4.		Merged boxes	The number of marbles in box																
			A	A	A	A	A	A	A	A									
	Initial condition		4	5	6	8	9	31	32	35									
	Move 1.	B dan H	4	20	6	8	9	31	32	20									
	Move 2.	E dan F	4	20	6	8	20	20	32	20									
	Move 3.	D dan G	4	20	6	20	20	20	20	20									
5.	Move 4.	A dan C	5	20	5	20	20	20	20	20									
	1+2+3+4−5+6+7+8+9−10 1+2+3+4+5−6+7+8−9+10 1+2+3+4+5+6−7−8+9+10 1−2−3+4+5+6+7+8+9−10 1−2+3−4+5+6+7+8−9+10 1−2+3+4−5+6+7−8+9+10 1−2+3+4+5−6−7+8+9+10 1+2−3−4+5+6+7−8+9+10 1+2−3+4−5+6−7+8+9+10 1+2+3−4−5−6+7+8+9+10 1−2−3−4+5−6+7+8+9+10			6.															