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2010 IMSO Answers

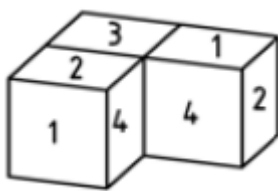
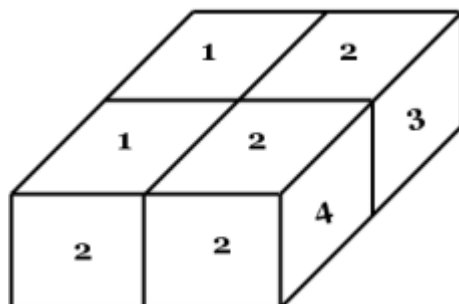
SHORT ANSWER

1.	5 : 6	2.	84	3.	4	4.	700	5.	11
6.	7 : 11	7.	34	8.	385	9.	Friday	10.	120°
11.	119	12.	27.1 %	13.	3	14.	16	15.	4
16.	$7\frac{15}{16}$	17.	5	18.	32.5	19.	9	20.	432
21.	5	22.	13	23.	6	24.	18	25.	7

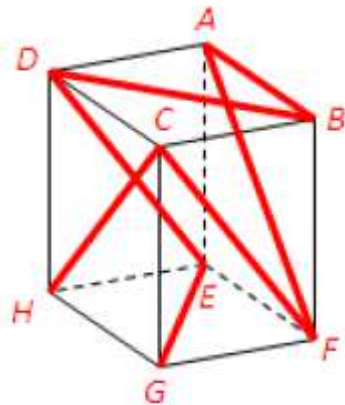
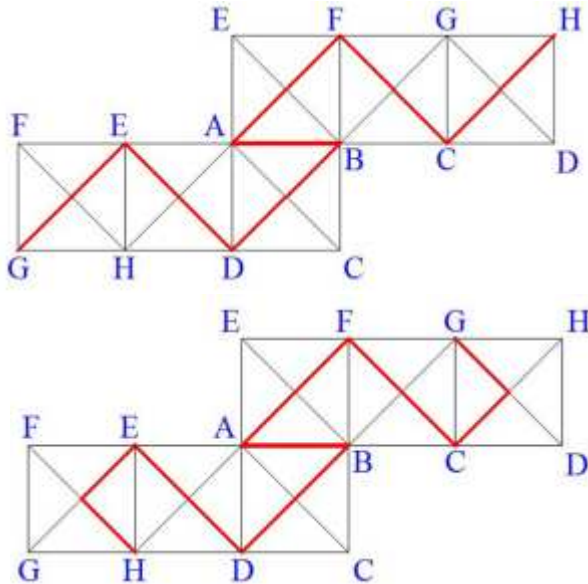
ESSAY PROBLEMS

1.	13.5	2.	0	3.	2	4.	23		
5.	12	6.	8 : 9	7.	15	8.	154		
9.	10	10.	884	11.	106	12.	180	13.	214, 634, 319 and 629

EXPLORATION PROBLEMS

1. (a)			1. (b)		
2.	Seat Number		Name of the Scientist		Profession
	1		Ms. Anna 1		Astronomer 4
	2		Ms. Chelsea 3		Chemist 5
	3		Mr. Danny 8		Mathematician 2
	4		Mr. Ewing 9		Physician 10
	5		Mr Bill 6		Biologist 7

3. (a)	2	2	1	2	3. (b)		2			3. (c)					2	
	2	2	1	2			2	1					1			
	3	2	1	3		3						3				
	3	2	1	4					4							
												5				

4.				

5.	$27 \times 198 = 5346$ $28 \times 157 = 4396$	6.	Pairing no.	Flights	Total Flying Time	Duty Time
			1	1 – 7	4	9.5
			2	2 – 3	3	3.75
			3	2 – 8	3	8.25
			4	5 – 8	3	3.75
			5	9 – 10	1.5	2.25
			6	1 – 6 – 8	4.5	10.75
			7	2 – 4 – 7	4.5	7
			8	2 – 3 – 5 – 8	6	8.25
			9	2 – 3 – 9 – 10	4.5	11.25
			10	2 – 4 – 6 – 8	5	8.25
			11	2 – 8 – 9 – 10	4.5	11.25
			12	5 – 8 – 9 – 10	4.5	6.75
			13	2 – 4 – 7 – 9 – 10	6	11.25
			14	2 – 3 – 5 – 8 – 9 – 10	7	11.25
			15	2 – 4 – 6 – 8 – 9 – 10	6.5	11.25