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2013 IMSO Answers

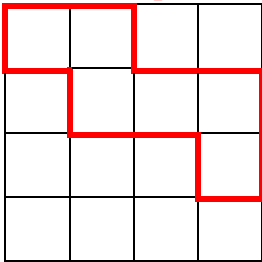
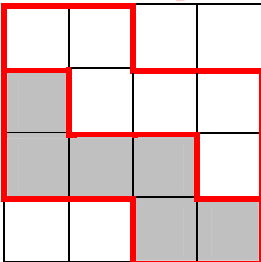
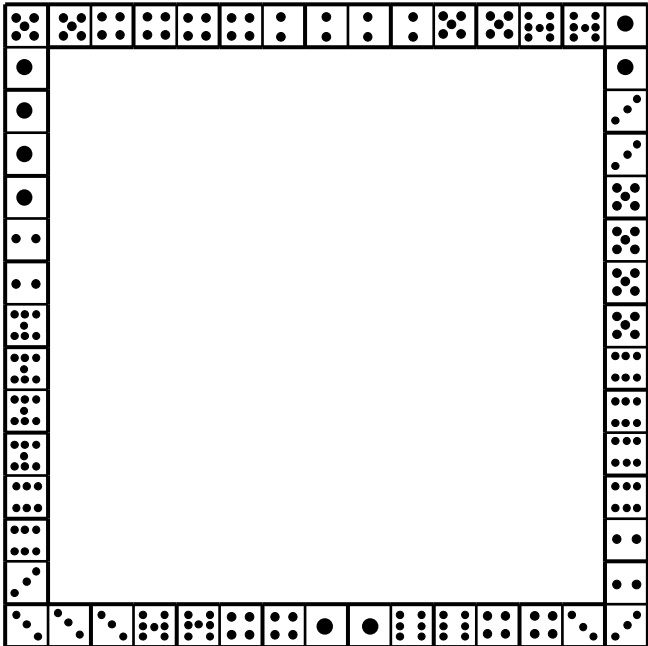
SHORT ANSWER

1.	88	2.	2011	3.	75	4.	2	5.	52
6.	42	7.	2	8.	9	9.	A	10.	20
11.	5	12.	400	13.	Friday	14.	7	15.	987
16.	13	17.	7	18.	∇	19.	45°	20.	99
21.	3 : 8 : 13	22.	1 : 2	23.	2016	24.	2	25.	<i>d</i>

ESSAY PROBLEMS

1.	14 students in Room A, 13 students in Room B, 10 students in Room C, 8 students in Room D, 5 students in Room E.										2.	18																																												
3.	158530			4.	<table><tr><td>3</td><td>4</td><td>7</td><td>9</td><td>3</td><td>6</td><td>4</td><td>8</td><td>3</td><td>5</td><td>7</td><td>4</td><td>6</td><td>9</td><td>2</td><td>5</td><td>8</td><td>2</td><td>7</td><td>6</td><td>2</td><td>5</td><td>1</td><td>9</td><td>1</td><td>8</td><td>1</td></tr></table>																									3	4	7	9	3	6	4	8	3	5	7	4	6	9	2	5	8	2	7	6	2	5	1	9	1	8	1
3	4	7	9	3	6	4	8	3	5	7	4	6	9	2	5	8	2	7	6	2	5	1	9	1	8	1																														
5.	25%				6.	150°						7.	0																																											
8.	0, 1, 3, 4, 5, 7, and 8				9.	<table><tr><td>1×26 = 26</td><td>2×13 = 26</td></tr><tr><td>6×71 = 426</td><td>3×82 = 246</td></tr><tr><td>3×88 = 264</td><td>8×33 = 264</td></tr></table>						1×26 = 26	2×13 = 26	6×71 = 426	3×82 = 246	3×88 = 264	8×33 = 264	10.	12:01																																					
1×26 = 26	2×13 = 26																																																							
6×71 = 426	3×82 = 246																																																							
3×88 = 264	8×33 = 264																																																							
11.	2				12.	9						13.	29°																																											

EXPLORATION PROBLEMS

1.	First piece  Second piece 		
2.	Cut the 1st rod into 3, 3, 3 and 4. Cut the 2nd rod into 3, 3, 3 and 4. Cut the 3rd rod into 3, 3, 3 and 4. Cut the 4th rod into 3, 5 and 5. Cut the 5th rod into 3, 5 and 5. Cut the 6th rod into 3, 5 and 5. Cut the 7th rod into 3, 5 and 5. Cut the 8th rod into 4, 4, and 5. Cut the 9th rod into 4, 4, and 5. Cut the 10th rod into 4, 4, and 5. Cut the 11th rod into 4, 4, and 5. Cut the 12th rod into 4, 4, and 5.		
3.	F1 + M1 ↓ M2 + F2 ↓ M3 F3 F4 4. 1+2+3−4+5+6+7+8+9=100 12+3−4+5+6+7+8+9=100 1+23−4+5+6+7+8+9=100 123−45−6+7+8+9=100 1+23−4+5+6+7+8−9=100 1+2+34−5+6+7−8+9=100 12+3+4+5−6−7+8+9=100		
5.		6.	