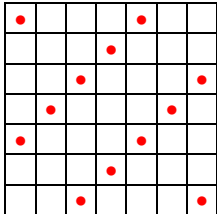
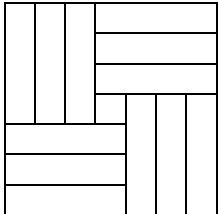


2010 EMIC Answers

Individual

1.	84	2.	18079	3.	15	4.	0	5.	12
6.	12	7.	$112\frac{1}{2}^\circ$	8.	1328	9.	506172839	10.	8
11.	100:147	12.	33	13.	4	14.	424	15.	5511111

Team

1.	46	2.	$777 \div 7 - 77 = 34$																														
3.	13	4.	217																														
5.	Mr. X — Lady C, Mr. Y — Lady A Mr. Z — Lady B	6.	728163549																														
7.	<table border="1" style="width: 100%; border-collapse: collapse; font-size: small;"> <thead> <tr> <th style="width: 10%;">Room</th> <th style="width: 15%;">Day 1</th> <th style="width: 15%;">Day 2</th> <th style="width: 15%;">Day 3</th> <th style="width: 15%;">Day 4</th> <th style="width: 15%;">Day 5</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td style="color: yellow;">A B C D</td> <td style="color: yellow;">B G I P</td> <td style="color: yellow;">C G J M</td> <td style="color: yellow;">C H I N</td> <td style="color: yellow;">D G L N</td> </tr> <tr> <td style="text-align: center;">2</td> <td style="color: yellow;">E F G H</td> <td style="color: yellow;">A F J N</td> <td style="color: yellow;">D F I O</td> <td style="color: yellow;">D E J P</td> <td style="color: yellow;">B H J O</td> </tr> <tr> <td style="text-align: center;">3</td> <td style="color: yellow;">I J K L</td> <td style="color: yellow;">C E L O</td> <td style="color: yellow;">A H L P</td> <td style="color: yellow;">A G K O</td> <td style="color: yellow;">A E I M</td> </tr> <tr> <td style="text-align: center;">4</td> <td style="color: yellow;">M N O P</td> <td style="color: yellow;">D H K M</td> <td style="color: yellow;">B E K N</td> <td style="color: yellow;">B F L M</td> <td style="color: yellow;">C F K P</td> </tr> </tbody> </table>			Room	Day 1	Day 2	Day 3	Day 4	Day 5	1	A B C D	B G I P	C G J M	C H I N	D G L N	2	E F G H	A F J N	D F I O	D E J P	B H J O	3	I J K L	C E L O	A H L P	A G K O	A E I M	4	M N O P	D H K M	B E K N	B F L M	C F K P
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8.	12,	9.	11,																														
	 		<table border="1" style="width: 100%; border-collapse: collapse; font-size: small;"> <tr><td style="color: red;">21</td><td style="color: red;">4</td><td style="color: red;">5</td><td style="color: red;">15</td><td style="color: red;">10</td></tr> <tr><td style="color: red;">20</td><td style="color: red;">3</td><td style="color: red;">6</td><td style="color: red;">14</td><td style="color: red;">12</td></tr> <tr><td style="color: red;">1</td><td style="color: red;">18</td><td style="color: red;">16</td><td style="color: red;">7</td><td style="color: red;">13</td></tr> <tr><td style="color: red;">2</td><td style="color: red;">19</td><td style="color: red;">17</td><td style="color: red;">8</td><td style="color: red;">9</td></tr> </table>	21	4	5	15	10	20	3	6	14	12	1	18	16	7	13	2	19	17	8	9										
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10.	<p style="color: red;">$n=1, 2, 3, 5$ and 6:</p> 