

<u>Name:</u>	<u>Country:</u>	<u>Points</u>



## 13th **24** Hours Puzzle Championship

9-11th November 2012  
Hotel Amadeus  
Hungary

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PUZZLES BY:  
TAWAN SUNATHVANICHKUL

- |                            |            |            |
|----------------------------|------------|------------|
| 1. Twins                   | 50 points  | (10x5)     |
| 2. Outside Sudoku          | 45 points  |            |
| 3. Digital Mess            | 35 points  |            |
| 4. Minesweepers            | 20 points  |            |
| 5. Magischen Minesweepers  | 45 points  |            |
| 6. Tapa Line               | 105 points | (50+55)    |
| 7. Pointing Nine Sudoku    | 50 points  |            |
| 8. Anti-Knight Scrabble    | 80 points  |            |
| 9. Anti-Knight Star Battle | 40 points  |            |
| 10. Araf                   | 100 points | (35+65)    |
| 11. Spy Battleships        | 45 points  |            |
| 12. Ripple Effect          | 80 points  | (40+40)    |
| 13. Tight Fit Sudoku       | 45 points  |            |
| 14. Haido Skyscrapers      | 120 points | (20+30+70) |
| 15. False Kakuro           | 65 points  |            |
| 16. Voyage to 2012 London  | 75 points  | (10x7)+5   |

**Total: 1000 points**

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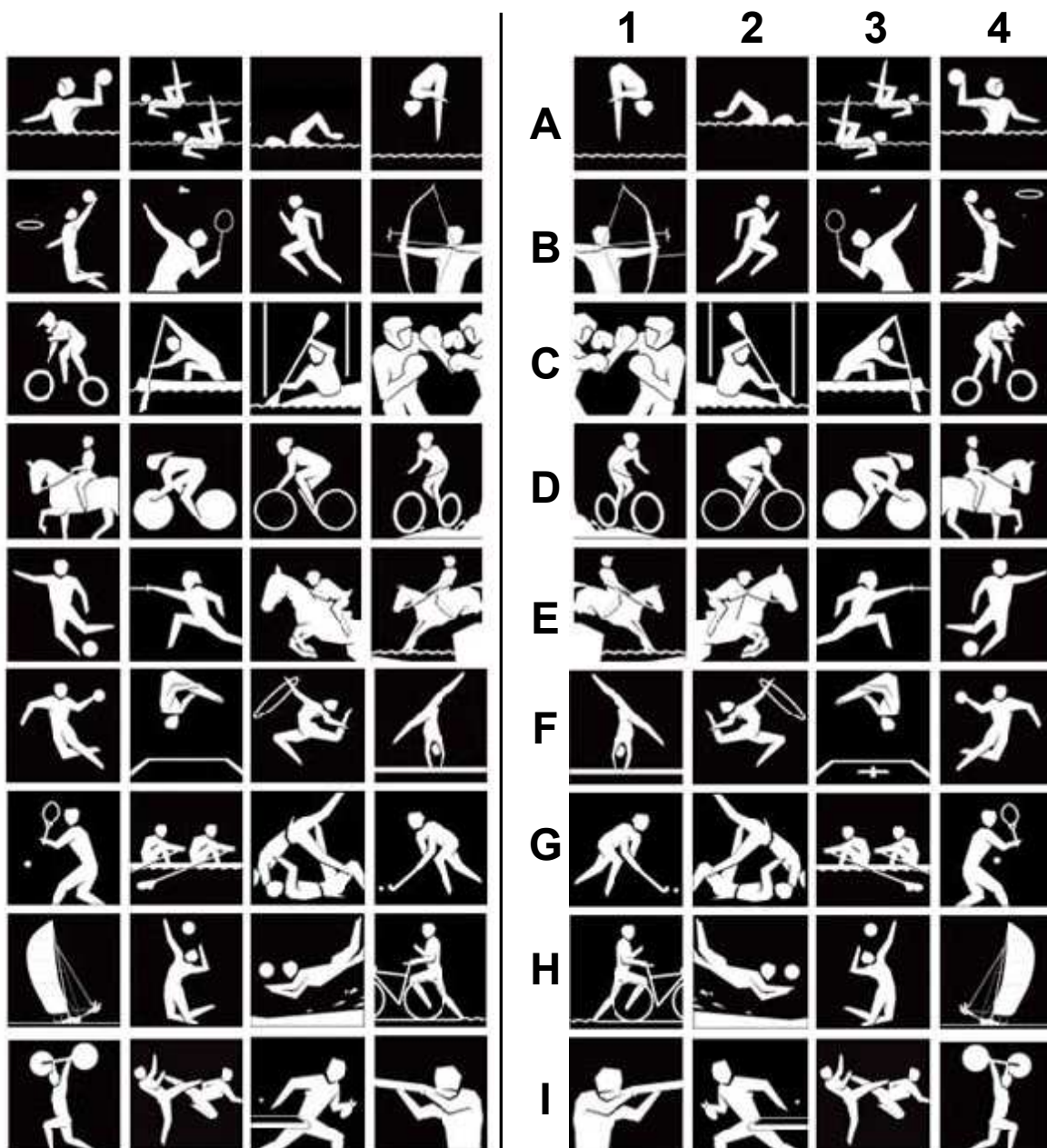


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**SUNATHVANICKUL**

## 1. TWINS

(10x5) POINTS

Find the 5 pictures that had been reflected incorrectly. Differences are reasonably visible and will not be due to pixelation. 10 points for each difference found.



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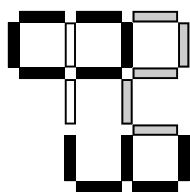
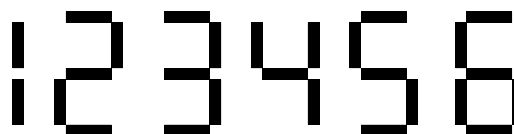
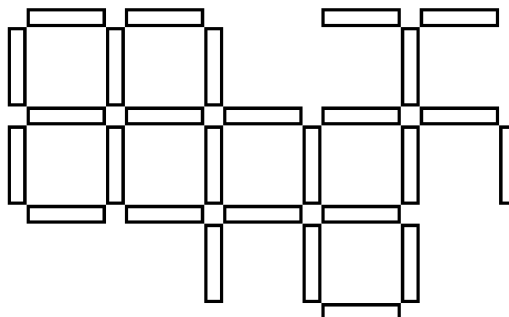
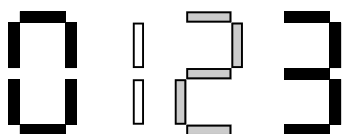
**2. OUTSIDE SUDOKU****45 POINTS**

Fill in the grid with numbers from 1-9 so that no digit repeats in any row, column or 3x3 bolded region. Numbers that appear outside the grid must be in one of the first 3 cells seen from that direction.

		2	5	4	2				1		
		9	8	7	3	6			7	3	
1	9										4 6
	7										2 5
	3										
	4										8
	6										3
	3										1
											3
3	7										9
2	6										1 5
		8	4			5	8	7	3	5	
			9				9	8	4	6	

**3. DIGITAL MESS****35 POINTS**

Locate several digital numbers in the given pile. Each fragment can only be used once, numbers may be rotated but not reflected.

**EXAMPLE**

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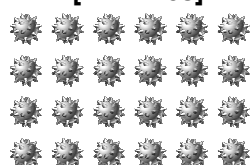
**4. MINESWEEPERS****20 POINTS**

Locate a number of mines in the grid. Numbers in the grid represent the amount of mines surrounding that square. Mines cannot occupy cells with numbers in them.

**EXAMPLE**

	1		1	
		1		
0				2
		1		
	2		3	

[24 mines]



				1			0		
	2	4							2
				1					
3		5				3	3		1
	2	3		3					
					1		1	1	
1		2	2				3		2
					4				
2							2	4	
		0			2				

**5. MAGISCHEN MINESWEEPERS****45 POINTS**

Locate exactly three mines in each row and column. The numbers in the grid represent the number of mines surrounding that cell. Mines are labeled; A, B and C. All types of mine appear once in each row and column. (2 types of mine in the example).

B	A		2	2
			B	A
		B	A	
A	B			
2	3	A		B

**EXAMPLE**

		2	A					0
		B		1	2			1
3							1	
	B							1
3			1	2		A		
1						C	3	

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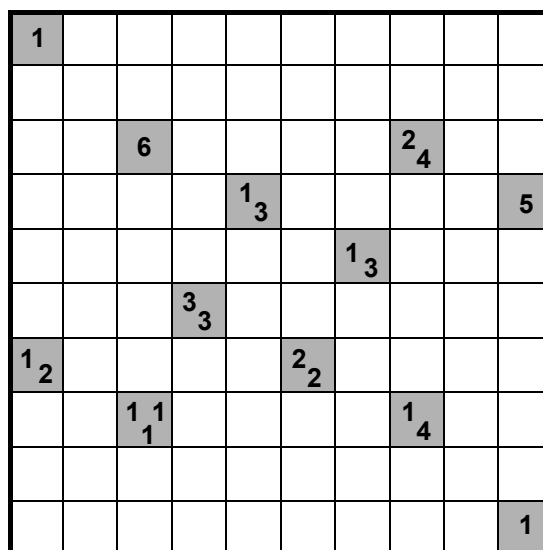
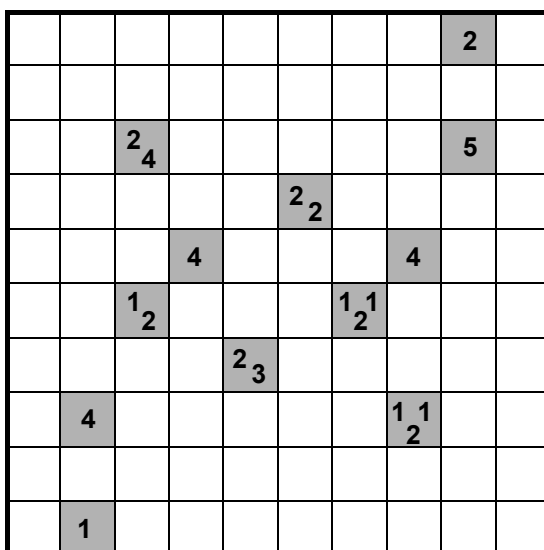
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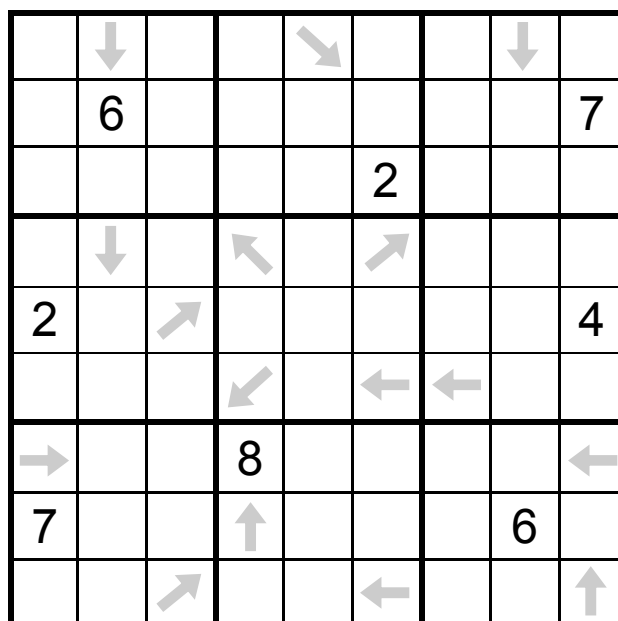
**6. TAPA LINE****50 + 55 POINTS**

Shade in a continuous wall of black squares. Numbers inside the clue cells represent the length of the wall segment/s surrounding that square. There cannot be a 2x2 grid of shaded squares. Additionally, there cannot be a straight line, horizontal or vertical, of more than 3 shaded cells.

**7. POINTING NINE SUDOKU****50 POINTS**

Fill in the grid with numbers from 1-9 so that no digit repeats in any row, column or 3x3 bolded region. Numbers on an arrow indicate the length from that arrow to a 9 in that direction.

3	6	4	1	5	2
5	1	2	3	4	6
4	2	5	6	3	1
1	3	6	5	2	4
6	4	3	2	1	5
2	5	1	4	6	3

**EXAMPLE**

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**8. ANTI-KNIGHT SCRABBLE****80 POINTS**

Fill in the grid with all the listed chess players. Words can only be read from left-right and top-bottom. No unlisted words may be formed. Each knight cannot attack identical letters. Enter only the capitalized surnames. All words must interconnect.

**EXAMPLE**

ANAND [Viswanathan]  
KASPAROV [Garry]  
LEKO [Peter]  
POLGAR [Judit]  
TAL [Mikhail]  
TOPALOV [Veselin]

			K		P		
T	O	P	A	L	O	V	
A			S		L		
L			P		G		
			A	N	A	N	D
			R		R		
L	E	K	O				
			V				

		K													
															
					N										
															
				I											
					G				H						
															
								T							
A															
										I					
		N													

ADAMS [Michael]  
ARONIAN [Levon]  
CARLSEN [Magnus]  
CARUANA [Fabiano]  
GASHIMOV [Vugar]  
GELFAND [Boris]  
DING [Liren]  
GIRI [Anish]  
KAMSKY [Gata]  
KARJAKIN [Sergey]

KRAMNIK [Vladimir]  
MC SHANE [Luke]  
MOROZEVICH [Alexander]  
NAKAMURA [Hikaru]  
PONOMARIOV [Ruslan]  
RADJABOV [Teimour]  
SHIROV [Alexei]  
VOLOKITIN [Andrei]  
WANG [Hao]  
YIFAN [Hou]

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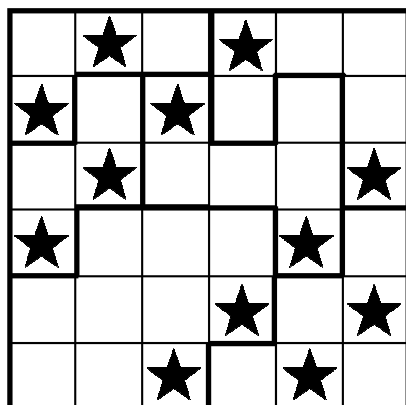
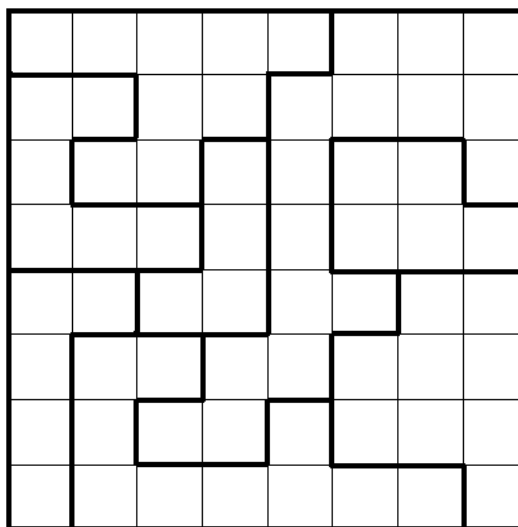
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**9. ANTI-KNIGHT STAR BATTLE****40 POINTS**

Locate 2 stars in each row, column and outlined region. Stars may not be a knight's move away from each other.

**EXAMPLE****10. ARAF****35 + 65 POINTS**

Divide the grid into segments containing two numbers each. The size of the segment must be a number strictly between the two numbers of that segment.

			24	24	
2	2				
				2	8
4	5				
				5	6
	4	5			

					11			5	3
10						4			4
		9					10		
	9					3		4	
8			10		24				2
9				3		6			7
	6		4					9	
		3					24		
8			1						24
9	6			2					

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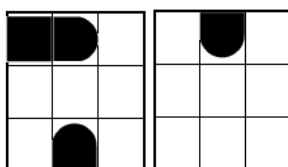
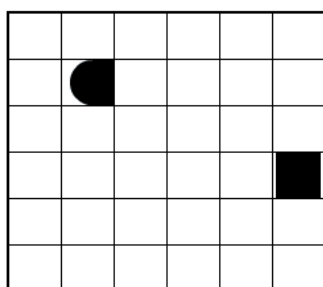


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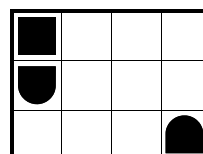
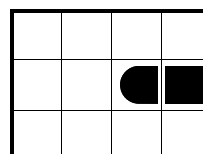
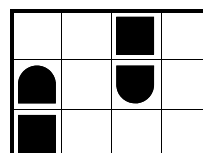
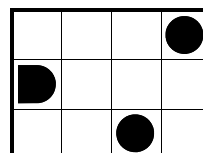
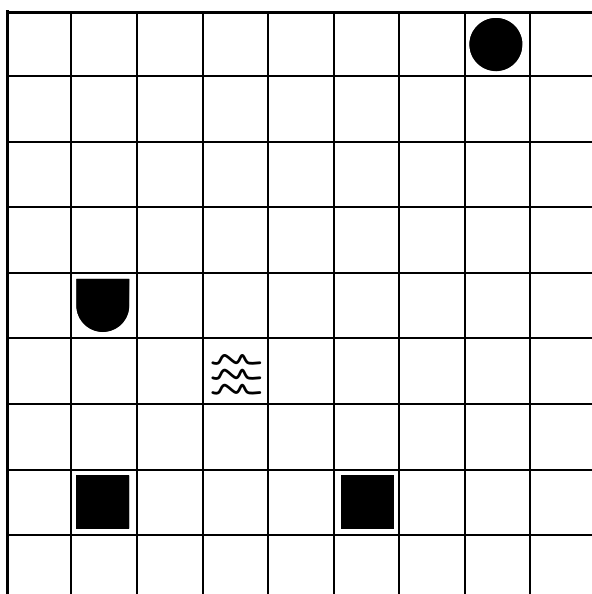
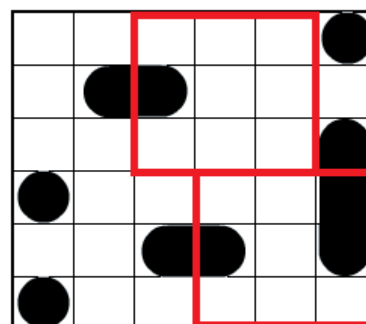
## 11. SPY BATTLESHIPS

**45 POINTS**

Locate the fleet of battleships in the grid. No ships touch each other, not even diagonally. All you have is 4 satellite photos of the completed grid. Photos can be rotated but not reflected. Photos do not overlap. You don't have to show where each photos are. Ships may not occupy cells with waves.



EXAMPLE





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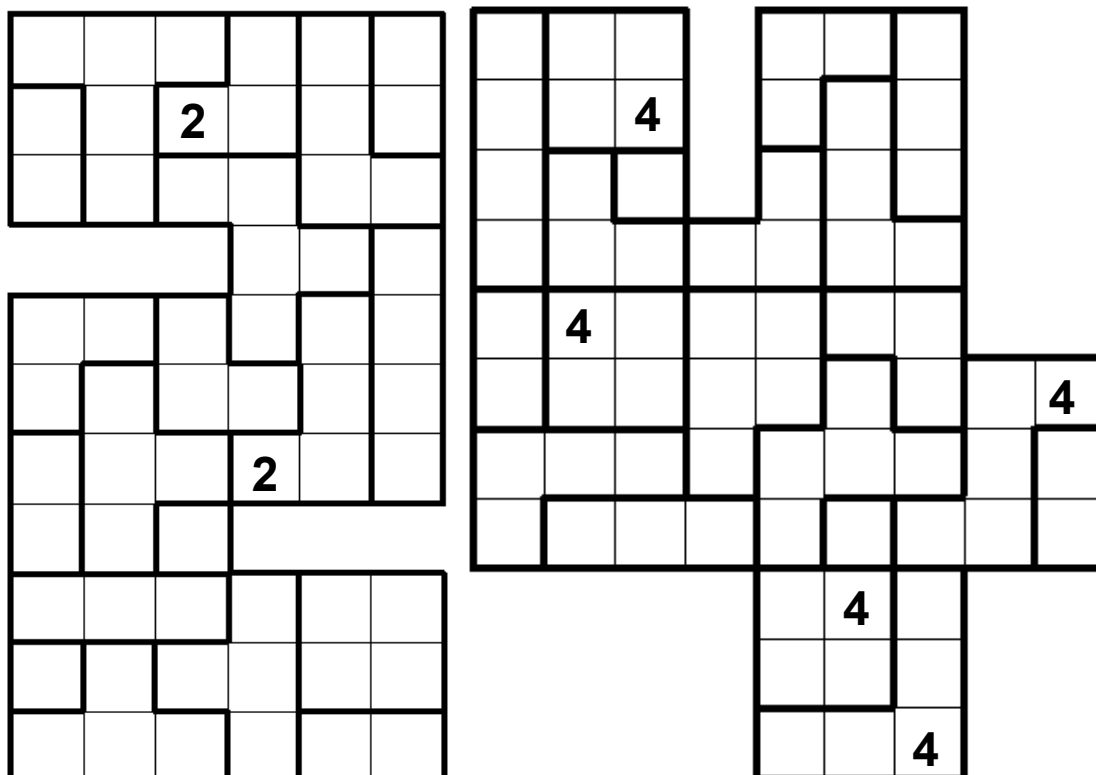
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**12. RIPPLE EFFECT****40 + 40 POINTS**

Place numbers from 1-n in each outlined regions where n is the number of cells in that region. Any number n has to be at least n cell(s) away from each other. For example; a 3 has to be at least 3 cells away from other 3s. Gaps are considered a cell.

**13. TIGHT FIT SUDOKU****45 POINTS**

Fill in the grid with numbers from 1-9 so that no digit repeats in any row, column or 3x2 bolded region. Larger numbers are filled below the lesser number for cells with two numbers.

8	3	1/4	7/9	2/6	5
5/6	7/9	2	1	8	3/4
7/9	2	5/8	4	1/3	6
1	4/6	3	2/8	5	7/9
3/4	8	6	5	7/9	1/2
2	1/5	7/9	3/6	4	8

**EXAMPLE**

/	9	/	/	7	6
/	/	6	/	/	3
1	/	/	4	/	/
/	/	/	2	/	9
/	4	/	5	/	/
2	5	/	/	8	/

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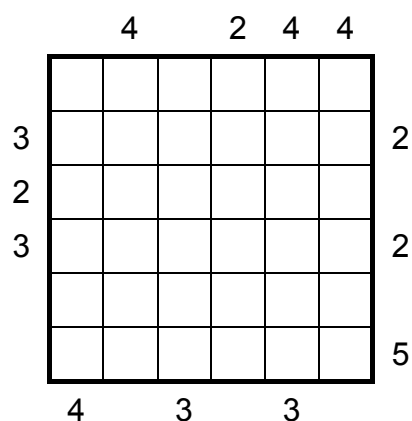
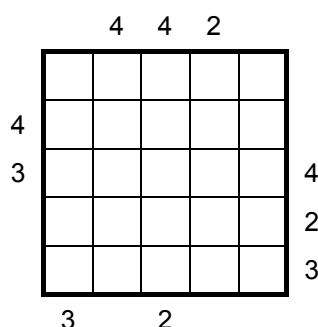
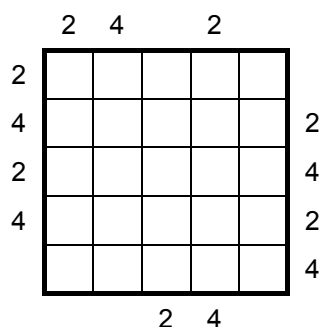


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## 14. HAIDO SKYSCRAPERS

20 + 30 + 70 POINTS

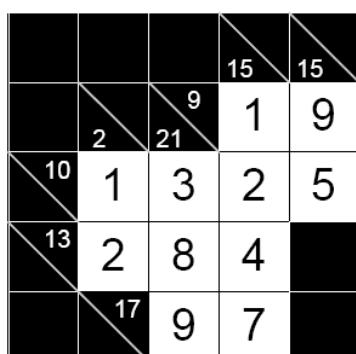
Enter numbers 1-n so that no number repeats in any row and column. Each number represents the height of the building. Numbers outside the grid indicate the height of a building that can be seen from that direction.



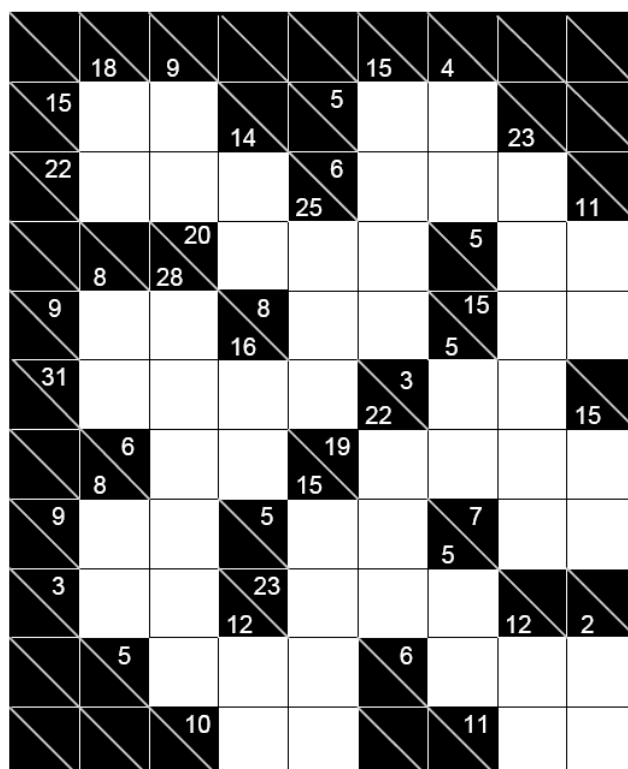
## 15. FALSE KAKURO

65 POINTS

Standard Kakuro rules apply; fill in digits 1-9 so that the sum of each row and column equals to the corresponding value. Numbers cannot repeat in a single sum. In this variant, the sum given is off by 1. So 20 could mean 19 or 21.

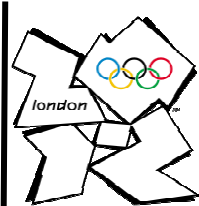


EXAMPLE



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**16. VOYAGE TO 2012 LONDON****(10x7) + 5 POINTS**

Find the listed words, they can go in any straight direction. 10 points for every 5 words found. There are 37 words, 5 bonus points for the last two words.

W	L
B N M	L A
B C A O C	C B B L R
R A A I D Y G	T Y C S T A A C
Y A L E R E M N G	M A R A T H O N B H
K L W T R C I N G	G E G O E L H T U D E
W S N Y C N I N	N K N N E O O R L L N R
E P C N Y T	I I W I I P N D N A W L A Y
U E L E J	O B L O V O L L E Y B A L L H
B Q N T F	N C N I B E O L C C L A K
B A E T N	H D D S C M P Y L K B
E L L A I D U J O	O J U H U C M L
W O R H T R E M M A H	C M A J A
W A L S K H P R A C E V	K S C R R
R A C E H L S W A L K J E	E K D C O T
L O E	L F P Y G W I D W S
J U M S N O	M O I S M A N E S C I W
U P J L N T N	P O D U N I C I I C A N T
O D U M A N I G	T U L J M N A I T X G U R G N
O P C L G N B	J D O T N S N N O I S I
M B N O A G	P H A A E I G A B L
B U I A L M	A H L R N T L T T L
L J B L T	E Q U O T M E T H H
K E H T K E	T R I N C Y C S T L
W E I G H T L I F T	I N G A E I O A O J
G N I L I A S	A T H R I N N G W N M H
T E K S H A B	S W I M M I N G R O W T
S H O T P U T	N G S C I T E L H T A

ARCHERY  
ATHLETICS  
BADMINTON  
BOXING  
CANOE SPRINT  
DECATHLON  
DISCUS  
DIVING  
EQUESTRIAN  
FENCING

FOOTBALL  
GYMNASTICS  
HAMMER THROW  
HANDBALL  
HIGH JUMP  
HOCKEY  
HURDLES  
JAVELIN  
JUDO  
MARATHON

MODERN PENTATHLON  
RELAY  
ROWING  
SAILING  
SHOOTING  
SHOT PUT  
SLALOM  
STEEPLECHASE  
SWIMMING  
TAEKWONDO

TENNIS  
TRAMPOLINE  
TRIATHLON  
VOLLEYBALL  
WATER POLO  
WEIGHTLIFTING  
WRESTLING