WPF PUZZLE GP 2017 INSTRUCTION BOOKLET

Host Country: Serbia

Branko Ćeranić, Čedomir Milanović

Special Notes: Fill in the Blank and Count the Shapes will not be bonus-eligible (see http://gp.worldpuzzle.org/content/rules for more information on what this means). As a reminder, calculators and similar tools are NOT allowed for this competition.

Points:

Puzzles with * are not eligible for bonus (see GP rules)

*C1.	Fill in the Blank	2
*C2.	Fill in the Blank	8
*C3.	Fill in the Blank	13
C4.	Old Maid	13
C5.	Darts	6
C6.	Darts	15
C7.	Matches	13
C8.	Matches	20
C9.	Matches	32
C10.	Elastic Bands	30
C11.	Arithmetic Square	15
C12.	Arithmetic Square	25
*C13.	Count the Shapes	16
*C14.	Count the Shapes	12
C15.	Word Search	83
C16.	Products	35
C17.	Products	41
C18.	Products	120
C19.	Scrabble	19
C20.	Scrabble	31
	TOTAL:	549

---

*C1-3. Fill in the Blank [Čedomir Milanović] (2, 8, 13 points)

Determine what should replace the "?" symbols to make the most sensible pattern.

Answer: What replaces the "?" symbols. Do not use any separating characters.

Example Answer: 2134

2, 3, 5, 8, 13, ?, ?, 55

WPF **PUZZLE** GP

ROUND 1C

P WPF
SUDOKU/PUZZLE
GRAND PRIX
2017

WORLD PUZZLE FEDERATION

C4. Old Maid [Čedomir Milanović] (13 points)

Each box in the grid contains an image. Each image, except one, appears in two boxes. Find the box that contains the image that appears only once. Images can be rotated but not reflected.

Answer: For the image that appears only once, enter its row letter followed by its column number.

Example Answer: B3

C5-6. Darts [Čedomir Milanović] (6, 15 points)

"Throw" the given number of darts onto the dartboard. Each dart must be thrown into a numbered region, and no two darts can be thrown into the same region. The sum of the numbers in the regions with darts must add up to the specified target score.

Answer: Enter the numbers in the regions with darts, from smallest to largest. Do not use any separating characters.

Example Answer: 1015183640
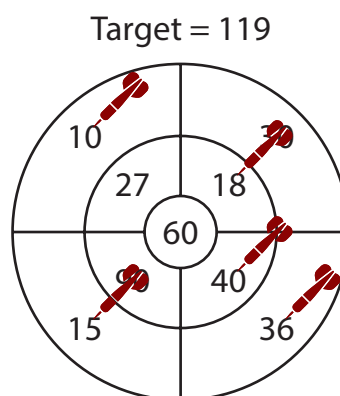
C7-9. Matches [Čedomir Milanović] (13, 20, 32 points)

Remove [two] matches so that the remaining matches express a correct arithmetic equality.

In the actual puzzles, the words in the brackets will be replaced with other terms. The letters on the match heads are only for entering your answer.

Answer: The letters of the [two] removed matches, in alphabetical order.

Example Answer: GJ

WPF PUZZLE GP

ROUND 1C

WPF
SUDOKU/PUZZLE
GRAND PRIX
2017

PUZZLE
WORLD PUZZLE FEDERATION
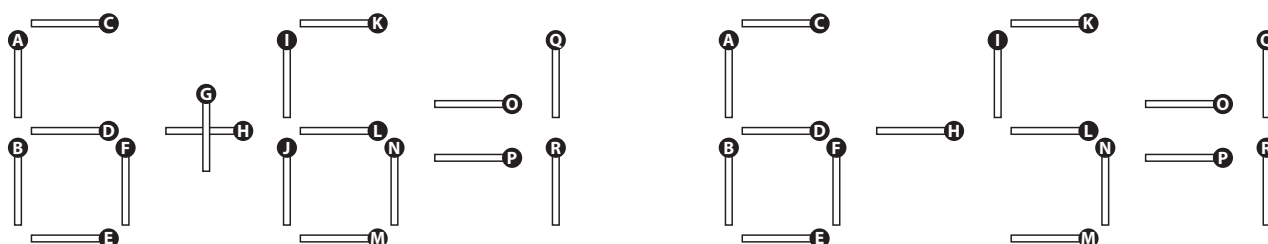
C10. Elastic Bands [Čedomir Milanović] (30 points)

Fill in each circle with a letter so that the two networks are identical; that is, if two letters have a line connecting them in one network, then those two letters have a line connecting them in the other network, and vice versa.

Answer: Enter all the letters in the second network, starting at the top node and proceeding clockwise around the approximate ring of nodes. Include all given letters in your answer.

Example Answer: EFCADB
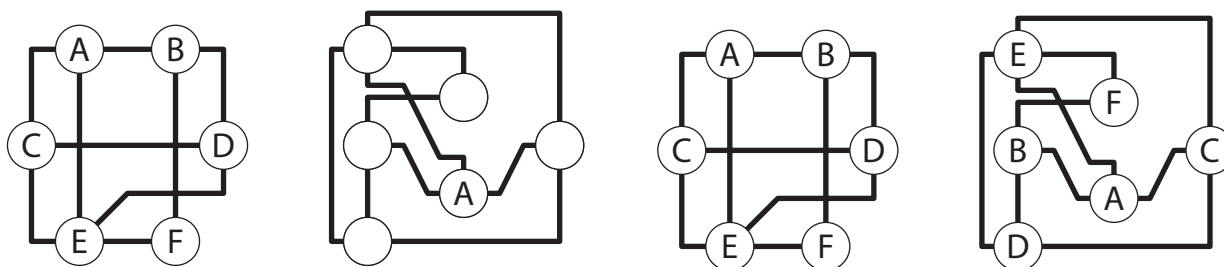
C11-12. Arithmetic Square [Čedomir Milanović] (15, 25 points)

Place each number from 1 to 9 into the cells (a different single number in each cell) so that the indicated equations/relations are correct. Evaluate from left-to-right and top-to-bottom (ignore the usual precedence of the operators).

It is possible for expressions and partial expressions to be negative or non-integral.

Answer: For each designated row, enter the contents of the cells, in order from left to right.

Example Answer: 987,643,521

Left grid:
➡ [ ] + [ ] + [ ] > 23
   +   −   +
➡ [ ] × [ ] ÷ [ ] = 8
   ×   ×   −
➡ [ ] × [ ] + [ ] = 11
   =   =   =
   75   8   9

Right grid:
➡ 9 + 8 + 7 > 23
   +   −   +
➡ 6 × 4 ÷ 3 = 8
   ×   ×   −
➡ 5 × 2 + 1 = 11
   =   =   =
   75 8   9

*C13-14. Count the Shapes [Čedomir Milanović] (16, 12 points; half-credit for an answer that is 1 away from the correct answer)

Determine the number of [equilateral triangles] (of any size) in the diagram [that contain exactly one pig and one koala].

In the actual puzzles, the words in the brackets will be replaced with other terms. Partial credit will be given for an incorrect answer that is close to the correct answer..

Answer: The number of [equilateral triangles].

Example Answer: 4

WPF PUZZLE GP
ROUND 1C

WPF
SUDOKU/PUZZLE
GRAND PRIX
2017

PUZZLE
WORLD PUZZLE FEDERATION
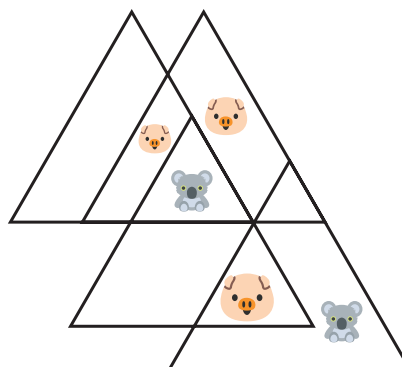
C15. Word Search [Čedomir Milanović] (83 points)

Locate the list of words in the grid. Words always appear in a line in one of the eight standard directions.

Answer: Enter the unused letters in the grid. Enter the rows from top-to-bottom and each row from left-to-right.

Example Answer: AGAL

D	A	G	D
A	R	A	A
S	L	A	L
G	D	A	B

GLAD
SAD
BAD
DRAB

D	A	G	D
A	R	A	A
S	L	A	L
G	D	A	B

GLAD
SAD
BAD
DRAB

C16-18. Products [Branko Ćeranić] (35, 41, 120 points)

Fill in some cells with numbers. Each number from 1 to X must appear exactly once, where X is twice the number of rows in the grid. Numbers cannot share a cell. Each row must contain exactly two numbers. Each column must contain exactly two numbers. (There are no similar restrictions on the diagonals.) When given, the numbers below and to the right of the grid indicate the multiplicative product of all numbers in that row, column, or long dotted-line diagonal, respectively. (The product of one number is the number itself; the product of no numbers is 1.)

The numbers on top of the diagram are for Answer purposes only.

Answer: For each row from top to bottom, enter the number of the first column from the left where a number appears (the number on top of that column). Use only the last digit for two-digit numbers; e.g., use '0' if the first number appears in column 10.

Example Answer: 13212

C19-20. Scrabble [Čedomir Milanović] (19, 31 points)

Put at most one letter into each cell so that the given words can be read either across (left-to-right) or down (top-to-bottom) in consecutive cells in the grid. Every word must appear in the grid exactly once, and no other words may appear in the grid (that is, if two cells are filled and are adjacent, then there must be a word that uses both of them). Every word must have either a blank cell or the edge of the grid before and after it. All letters must be (orthogonally) connected in a single group.

Answer: For each designated row, enter its contents from left to right, ignoring any blank cells. If all cells in the row are blank, enter a single letter 'X'.

Example Answer: CYPRUSO , ONMUO , AUR , GA

Puzzle grids (top, C16-18):

1	2	3	4	5	**6**
					10
					72
					18
					10
					28
20	**21**	**54**	**20**	**8**	**300**

1	2	3	4	5	**6**
10				1	**10**
		9		8	**72**
	3	6			**18**
2			5		**10**
	7		4		**28**
20	**21**	**54**	**20**	**8**	**300**

Word list (C19-20):

AUSTRIA
CROATIA
CYPRUS
GEORGIA
ICELAND
LUXEMBOURG
MACEDONIA
MOLDOVA
SPAIN

Scrabble grid (right, C19-20):

M							
A		S		L			M
C	Y	P	R	U	S		O
E		A		X			L
D		I	C	E	L	A	N	D
O		N		M		U		O
N				B		S		V
I		C	R	O	A	T	I	A
A				U		R		
	G	E	O	R	G	I	A	
				G		A		