



WPF PUZZLE GP 2017 INSTRUCTION BOOKLET

Host Country: Turkey

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Special Notes: This round is unofficial (see announcements).

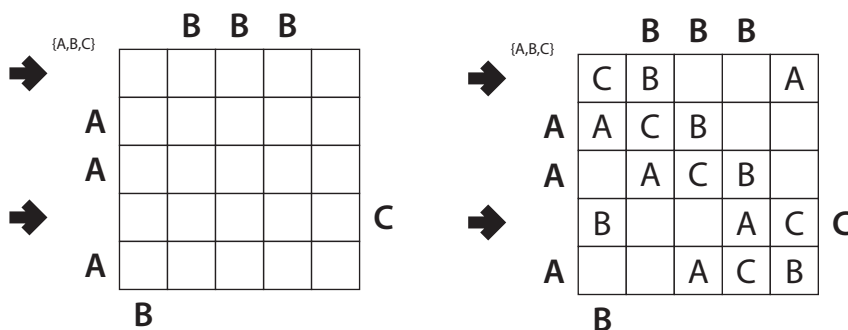
Points:					
1.	Easy As...	8	10.	Slitherlink	92
2.	Easy As...	48	11.	Yajilin	42
3.	Shikaku	14	12.	Yajilin	45
4.	Masyu	16	13.	Crack It On	53
5.	Minesweeper	29	14.	Four Winds	79
6.	Star Battle	31	15.	Skyscrapers	86
7.	Letter Hitori	29	16.	Kakuro	96
8.	Slitherlink	20	17.	Nurikabe	95
9.	Slitherlink	74	TOTAL:		857

1-2. Easy As... [Muhammet Ateş, Mücahit Erdoğan Ünlü] (8, 48 points)

Place letters of the specified list into some cells, no more than one letter per cell, so that each letter appears exactly once in each row and column. The letters outside the grid indicate the first letter that can be seen in the respective row or column from the respective direction. Some letters may already be filled in for you.

Answer: For each designated row, enter its contents. Do *not* include any letters outside the grid. Use 'x' for an empty cell.

Example Answer: CBXXA, BXXAC



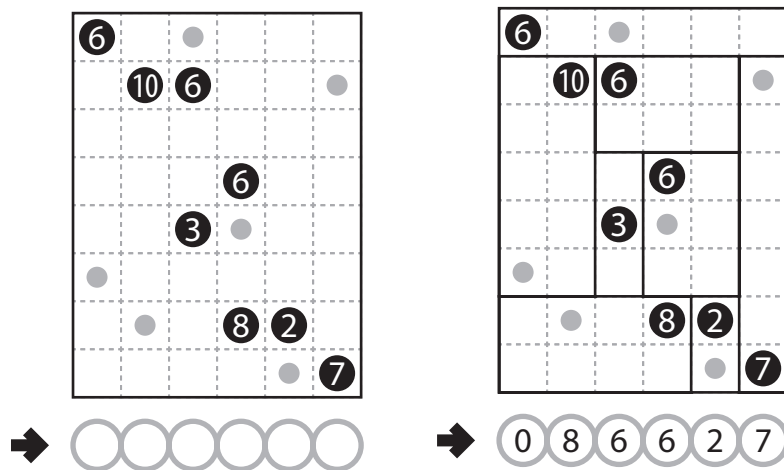
3. Shikaku [Mustafa Koyuncu] (14 points)

Divide the grid into rectangles along the grid lines such that each cell is in exactly one rectangle and each rectangle contains exactly one given number. The number must equal the area of the rectangle (in cells).

The dots in cells are only used for entering your answers.

Answer: Enter the number in the rectangle each dot is in, reading the dots from left to right. (Ignore which row the dots are in.) Use only the last digit for two-digit numbers; e.g., use '0' for a rectangle with a 10 inside it.

Example Answer: 086627

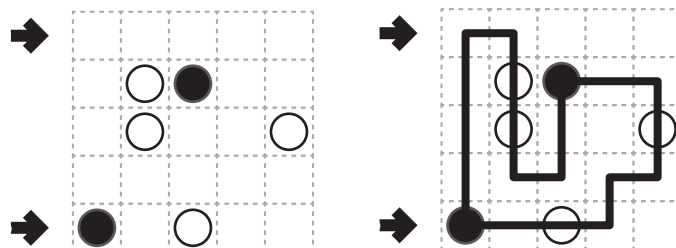


4. Masyu [Mustafa Koyuncu] (16 points)

Draw a single, non-intersecting loop that passes orthogonally through all circled cells. The loop must go straight through the cells with white circles, with a turn in at least one of the cells immediately before or after each white circle. The loop must make a turn in all the black circles, but must go straight in both cells immediately before and after each black circle.

Answer: For each designated row, enter the letter for each cell, from left to right. The letter for a cell is 'I' if the path goes straight through the cell, 'L' if the path turns in the cell, and 'X' if the path does not go through the cell.

Example Answer: LLXXX, LIILX



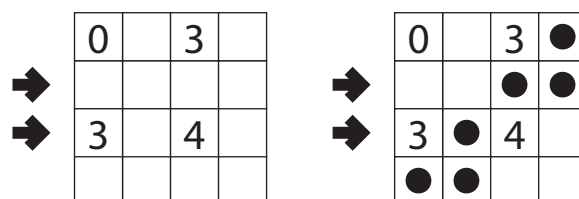
5. Minesweeper [Ahmet Kaan Aydın] (29 points)

Place mines into the un-numbered cells in the grid, at most one mine per cell, so that each number in a cell represents the number of mines adjacent to that cell (including diagonally adjacent cells).

The number of mines you must locate is NOT provided.

Answer: For each designated row, enter its contents from left to right. Use 'O' for a cell containing a mine and 'X' for a cell that does not contain a mine (but may contain a number).

Example Answer: XXOO, X0XX

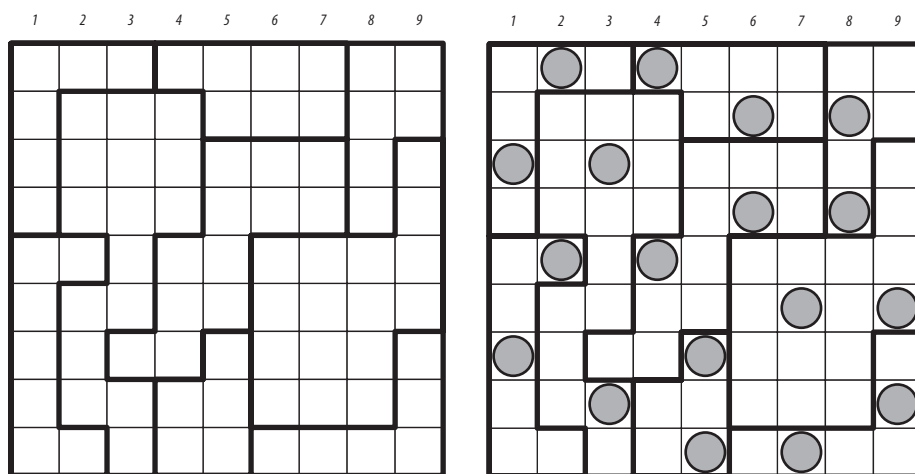


6. Star Battle [Mustafa Koyuncu] (31 points)

Place stars into some cells in the grid, no more than one star per cell. Each row, each column, and each outlined region must contain exactly two stars. Cells with stars may not touch each other, not even diagonally.

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 star appears (the number on top of that column). Use only the last digit for two-digit numbers; e.g., use '0' if the star piece appears in column 10.

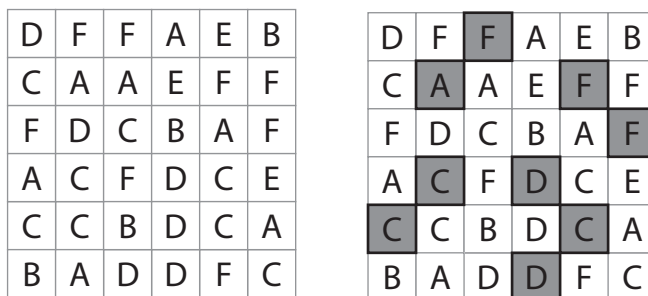


Example Answer: 261627135

7. Letter Hitori [İlay Zehra Şenay] (29 points)

Paint out some cells so that there are no duplicate letters in any row or column. Painted cells cannot share an edge (but they may share a corner) and all the unpainted cells must be connected horizontally or vertically in a single group.

Answer: For each column from left to right, enter the length in cells of the longest segment of unpainted cells (that is, the "length of the longest word"). If there are multiple segments with the same length (that are longer than all other segments), only enter its length once. Use only the last digit for two digit numbers; e.g., use '0' for a segment of size 10.



Example Answer: 425323

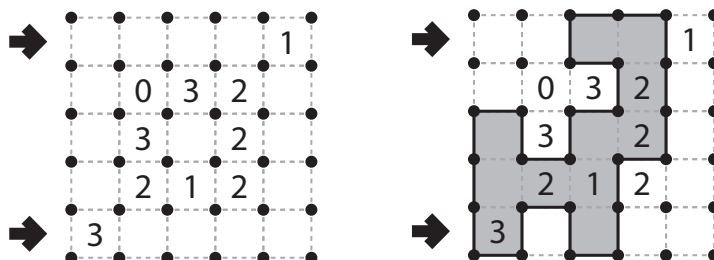
8-10. Slitherlink [Fatih Kamer Anda] (20, 74, 92 points)

Draw a single, non-intersecting loop that only consists of line segments between the dots. A number inside a cell indicates how many of the edges of that cell are part of the loop.

You may only draw on the grid along the dotted lines.

Answer: For each designated row, enter the lengths (number of cells) of each segment of cells *inside* the loop, from left to right. Use only the last digit for two digit numbers; e.g., use '0' for a segment of length 10. If there are no cells inside the loop for a row, enter the single digit '0'.

Example Answer: 2, 11

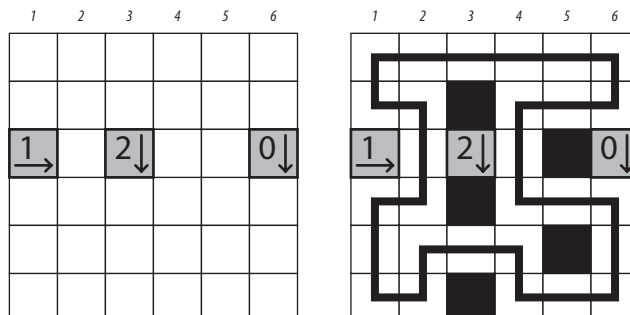


11-12. Yajilin [Muhammet Ateş, Yunus Emre Büyükkale] (42, 45 points)

Blacken some white cells and then draw a single closed loop (without intersections or crossings) through all remaining white cells. Loop paths must be orthogonal. Blackened cells cannot share an edge with each other. Some cells are outlined and in gray and cannot be part of the loop. Numbered arrows in such cells indicate the total number of blackened cells along the direction of the arrow, starting in the arrowed cell and going along a row or column to the edge of the grid.

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

Answer: For each row from top to bottom, enter the column number of the left-most blackened cell. (Outlined gray cells are not blackened.) Use only the last digit for two digit numbers; e.g., use '0' for column 10. If none of the cells in a row are blackened, enter '0' for that row.



Example Answer: 035353

13. Crack It On [Fatih Kamer Anda] (53 points)

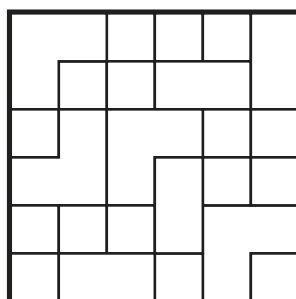
Place one letter into each region (they need not be distinct) so that each word in the given list appears exactly once in a row (reading left-to-right) or column (reading top-to-bottom) of a grid. (Note that some regions are in multiple rows and/or columns.)

A puzzle may have multiple grids (with one word list shared among them); it is up to you to determine which grid each word appears in.

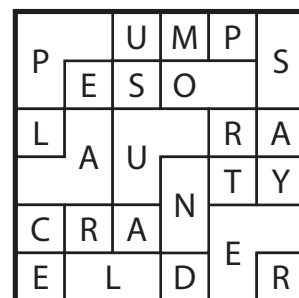
Some words will not be used.

Answer: Enter the unused words, in alphabetical order.

Example Answer: LAMPS, OSTER



- | | |
|-------|-------|
| AUNTY | PEARL |
| CRANE | PESOS |
| ELDER | PLACE |
| LAMPS | PORTE |
| LAURA | PUMPS |
| MOUND | SAYER |
| OSTER | USUAL |



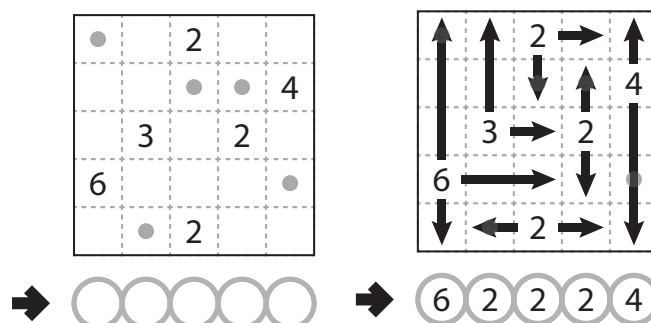
14. Four Winds [Alp Erem] (79 points)

Draw arrows in the empty cells in the grid. Arrows can only go in the four standard directions and must begin at the edge of a cell with a number. Each empty cell must be covered by exactly one arrow. Each number indicates the total length of all the arrows that begin at an edge next to that number's cell.

The dots in cells are only used for entering your answers.

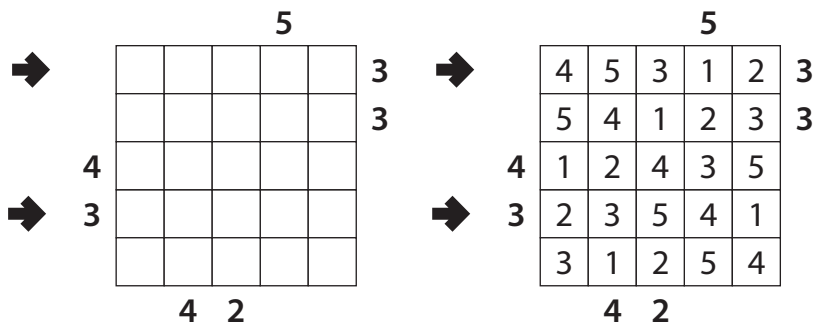
Answer: Enter the number whose arrow covers the dot, reading the dots from left to right. (Ignore which row the dots are in.) Use only the last digit for two-digit numbers; e.g., use '0' for a number labeled 10.

Example Answer: 62224



15. Skyscrapers [İlay Zehra Şenay] (86 points)

Place a number from 1 to X (integers only) into each cell so that each number appears exactly once in each row and column. (X is the number of cells in each row.) Each number represents a skyscraper of its respective height. The numbers outside the grid indicate how many skyscrapers can be seen in the respective row or column from the respective direction; smaller skyscrapers are hidden behind higher ones. Some numbers may already be filled in for you.



Answer: For each designated row, enter its contents. Do *not* include any numbers outside the grid.

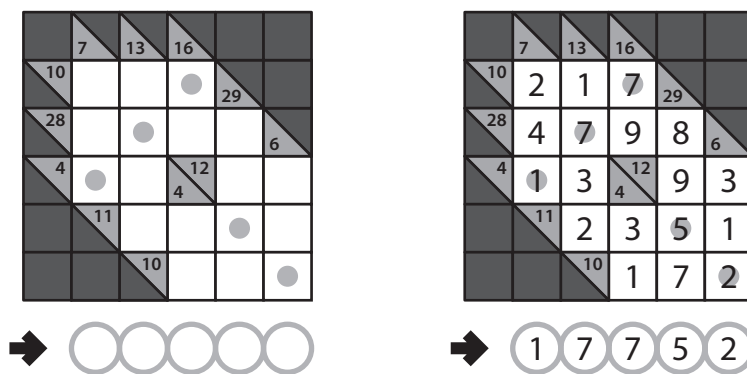
Example Answer: 45312, 23541

16. Kakuro [Yunus Emre Büyükkale] (96 points)

Place a digit from 1 to 9 into each white cell. The numbers in grey cells indicate the sum of digits in the adjacent "word" across or down. (Across "words" are to the right of their sums, Down "words" are below their sums.) Digits may not repeat within a "word."

Not all "words" will have a provided sum.

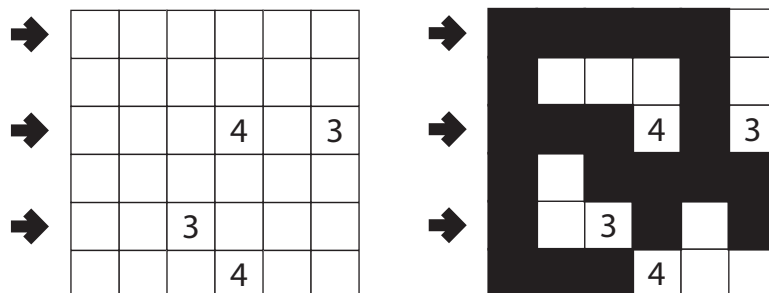
Answer: Enter the number in the cells that each dot is in, reading the dots from left to right. (Ignore which row the dots are in.)



Example Answer: 17752

17. Nurikabe [Mücahit Erdoğan Ünlü] (95 points)

Shade some cells black (leaving the other cells white) so that the grid is divided into non-overlapping regions; cells of the same color are considered in the same region if they are adjacent along edges. Each given number must be in a white region that has the same area in cells as that number. Each white region must have exactly one given number. All black cells must be in the same region. No 2x2 group of cells can be entirely shaded black.



Answer: For each designated row, enter the lengths (number of cells) of the black segments from left to right. If there are no black cells in the row, enter a single digit '0'. Use only the last digit for two-digit numbers; e.g., use '0' for a black segment of length 10.

Example Answer: 5, 31, 111