



WPF PUZZLE GP 2016 INSTRUCTION BOOKLET

Puzzle Authors: India

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General Notes: Note that the Puzzle Grand Prix rules have changed this year, resulting in separate Casual and Competitive sections in this test. The two sections will be in different PDFs for downloading convenience. Please see the detailed rules for competitors at: <http://www.gp.worldpuzzle.org/content/rules>.

Points, Casual Section:

1.	Fill in the Blank	?
2.	Fill in the Blank	?
3.	Fill in the Blank	?
4.	Buttons	?
5.	Buttons	?
6.	Buttons	?
7.	Count Shapes	?
8.	Count Shapes	?
9.	Count Shapes	?
10.	Darts	?
11.	Darts	?
12.	Darts	?
13.	Word Search	?
14.	Word Search	?
15.	Word Search	?
16.	Battleships	?
17.	Battleships	?
18.	Battleships	?
TOTAL:		?

Points, Competitive Section:

1.	Four Winds	?
2.	Four Winds	?
3.	Four Winds	?
4.	Four Winds	?
5.	Spiral Galaxies	?
6.	Spiral Galaxies	?
7.	Spiral Galaxies	?
8.	Nurikabe	?
9.	Nurikabe	?
10.	Nurikabe	?
11.	Skyscrapers	?
12.	Skyscrapers	?
13.	Skyscrapers	?
14.	Slitherlink	?
15.	Slitherlink	?
16.	Slitherlink	?
17.	Place by Product	?
18.	Place by Product	?
19.	Place by Product	?
20.	Full Tapa	?
21.	Full Tapa	?
22.	Full Tapa	?
TOTAL:		?



Casual Section

1-3. Fill in the Blank [Swaroop Guggilam] (??, ??, ?? points)

Determine what the “?” symbol should be replaced with to make a sensible pattern.

Note: The third puzzle will be in color, but seeing the exact colors is not necessary to solve the puzzle.

Answer: What replaces the “?” symbol.

Example Answer: 21

2, 3, 5, 8, 13, ?, 34

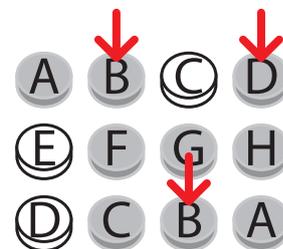
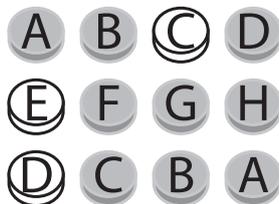
4-6. Buttons [Anoon Nimar] (??, ??, ?? points)

The grid is full of dark and light buttons. When a button is pressed, its color changes (from dark to light or light to dark), as well as any buttons directly above, below, left, and right of it. Press exactly [three] buttons with [a letter] on them, so that all the buttons become [white]. (Buttons that have the same symbols on them are not connected in any way.)

In the actual puzzles, the words in the brackets will be replaced with other terms.

Answer: Enter the symbols on the buttons you must press, in order from top-to-bottom. For buttons in the same row, enter them in order from left-to-right.

Example Answer: BDB



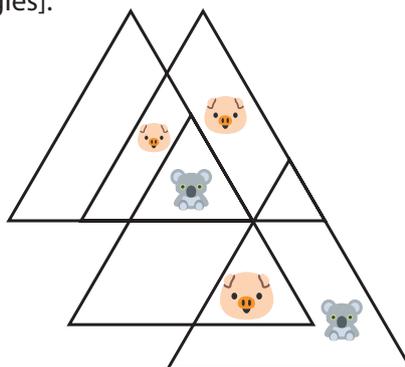
7-9. Count Shapes [Anoon Nimar] (??, ??, ?? points; ??, ??, ?? points for a “close” incorrect answer)

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 different by up to 2.

Answer: The number of [equilateral triangles].

Example Answer: 4



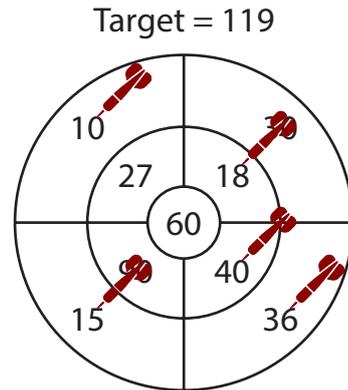
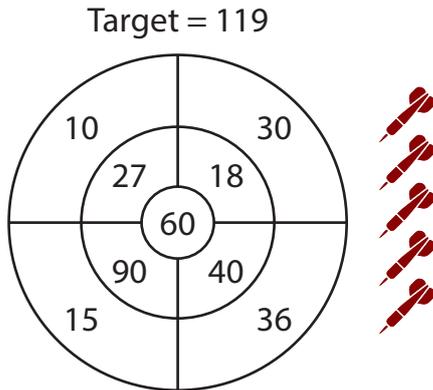


10-12. Darts [Anoon Nimar] (??, ??, ?? points)

Find some regions of the dartboard whose numbers add up to the specified target score. The regions must all be different and the number of regions is indicated by the number of darts depicted next to the dartboard.

Answer: Enter the numbers in the regions, from smallest to largest, separated by commas.

Example Answer: 10, 15, 18, 36, 40



13-15. Word Search [Swaroop Guggilam] (??, ??, ?? points)

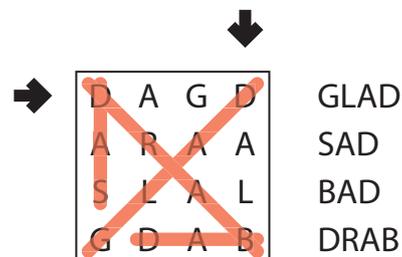
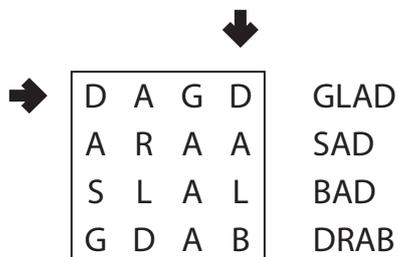
Locate the list of words in the grid. Words always appear in a line in one of the eight standard directions.

For the first and second puzzles, all words will appear exactly once. For the third puzzle, two words in the list cannot be found in the grid, and some words might appear more than once.

Answer [example and first two puzzles]: For each designated row (or column), enter the unused letters in that row (or column), from left to right (or top to bottom).

Answer [3rd puzzle only]: Enter the two words that cannot be found in the grid.

Example Answer: AG, AL





16-18. Battleships [Prasanna Seshadri] (??, ??, ?? points)

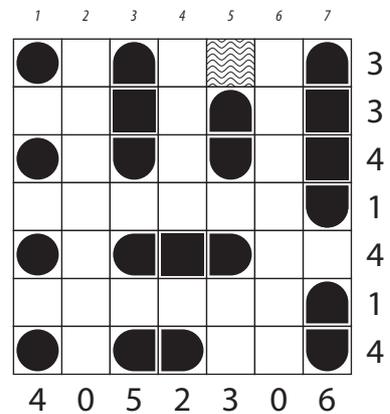
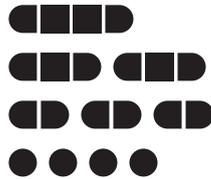
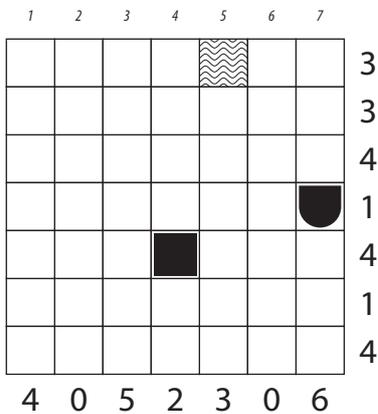
Locate the indicated fleet in the grid. Each piece of a ship occupies a single cell. A cell that does not contain a ship piece is considered "sea". Ships can be rotated. Ships do not touch each other, not even diagonally (that is, if two ship pieces are in adjacent cells, they must be part of the same ship). The contents of some cells are given for you.

Each number to the right and bottom of the grid reveals the number of ship pieces that must be located in that row or column (including any that might be given for you).

The numbers on top of the diagram and in the cells 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 ship piece appears (the small number in the cell, or the number on top of that column). Use only the last digit for two-digit numbers; e.g., use '0' if the first ship piece appears in column 10. If the row is empty, enter '0'.

Example Answer: 1317171



Competitive Section

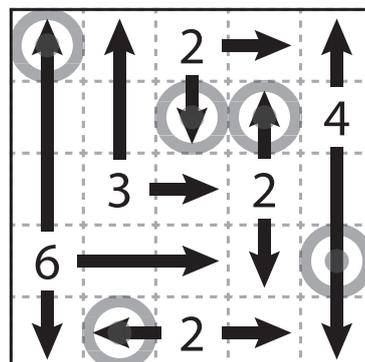
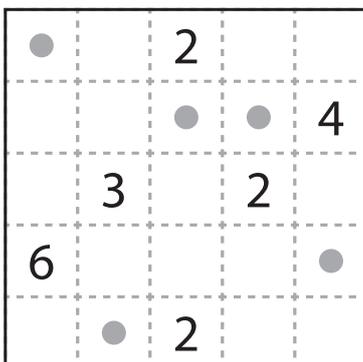
1-4. Four Winds [Swaroop Guggilam, Rajesh Kumar, Prasanna Seshadri, Prasanna Seshadri] (??, ??, ??, ?? points)

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





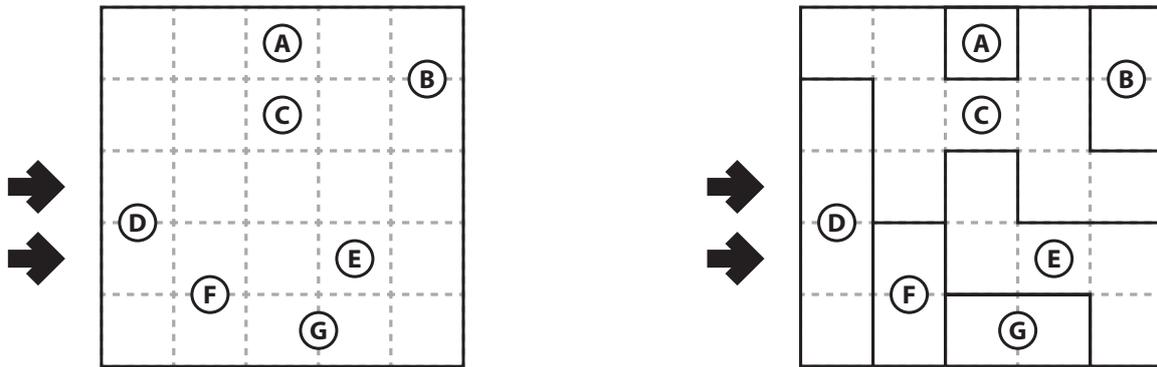
5-7. Spiral Galaxies [Ashish Kumar] (??, ??, ?? points)

Divide the grid into polyomino-shaped regions such that each cell is in exactly one region. You may only draw on the grid, as indicated by the dotted lines. Each region must be rotationally symmetric and contain exactly one dot at the point of symmetry.

The letters inside the dots are for Answer purposes only.

Answer: For each designated row, enter the letter for each cell, from left to right. The letter of a cell is the letter inside the dot that is the point of symmetry for the region that contains that cell.

Example Answer: DCECC, DFEEE

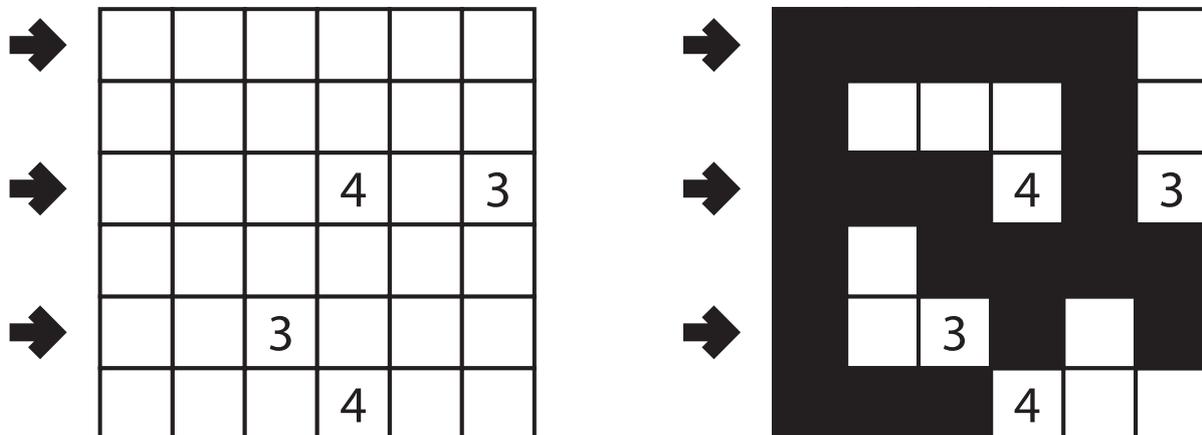


8-10. Nurikabe [Swaroop Guggilam] (??, ??, ?? points)

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 horizontally or vertically. 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



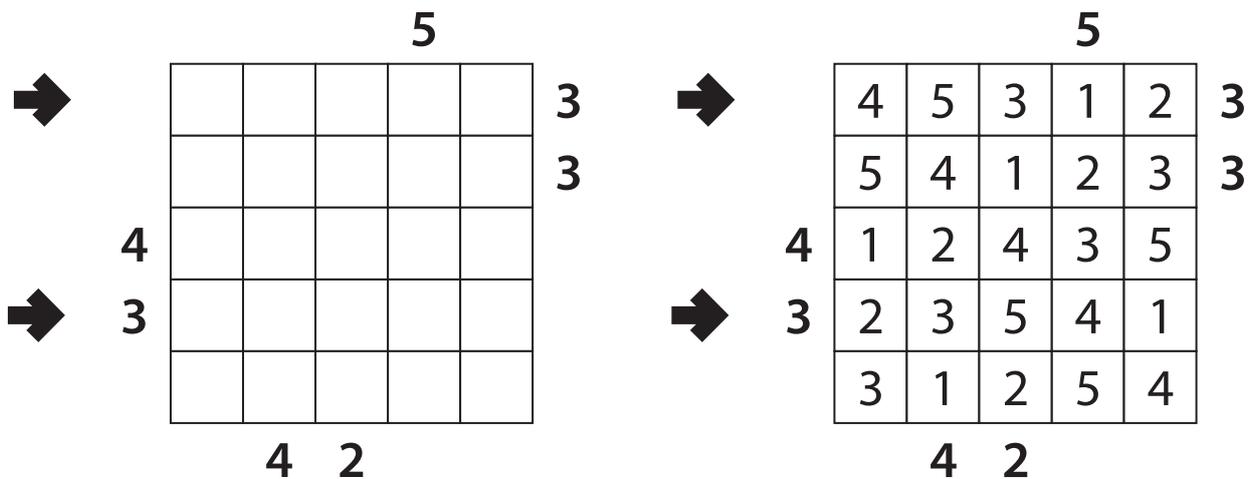


11-13. Skyscrapers [Rakesh Rai] (??, ??, ?? points)

Place a digit from 1 to X into each cell so that each digit appears exactly once in each row and column. (X is the number of cells in each row.) The digits represent skyscrapers of their respective heights. 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 digits 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



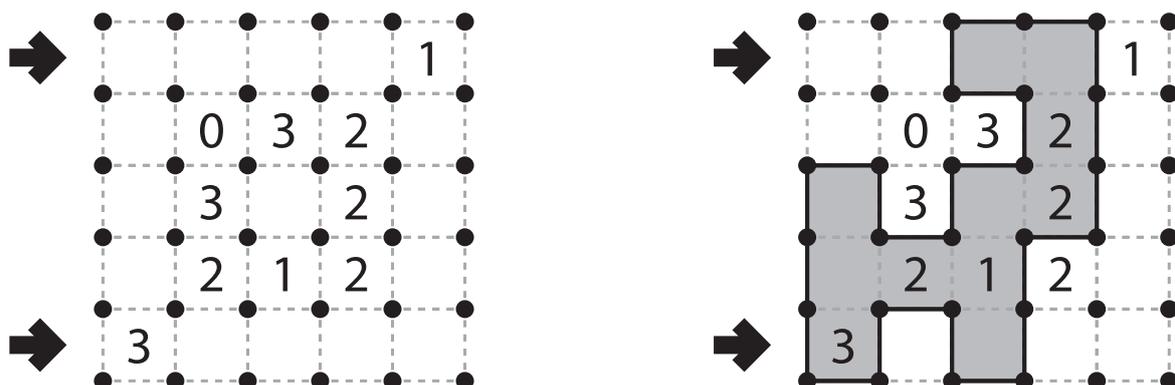
14-16. Slitherlink [Rajesh Kumar] (??, ??, ?? points)

Draw a single, non-intersecting loop that only consists of horizontal and vertical 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, as indicated by 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



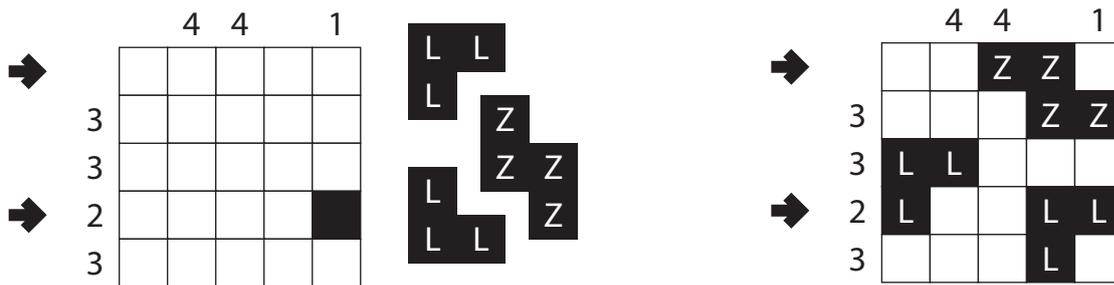


17-19. Place by Product [Ashish Kumar] (??, ??, ?? points)

Place the given set of pieces into the grid. Pieces may not touch, not even diagonally. Pieces may be rotated and reflected. The pieces divide rows (and columns) into groups of adjacent white (unoccupied) cells. Numeric clues are provided for some rows (and columns); a clue indicates the *multiplicative product* of the sizes of the (white) groups in that row (or column). A zero indicates that that row or column is completely filled. Some piece parts may already be placed for you; however, which piece the parts belong to is not identified for you.

Answer: For each designated row, enter the contents of each cell, from left to right. Use 'A' for an unoccupied cell.

Example Answer: AAZZA, LAALL

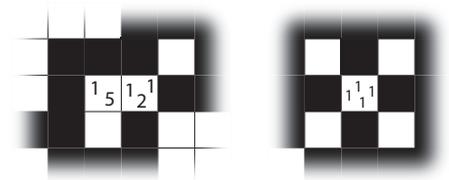


20-22. Full Tapa [Prasanna Seshadri, Swaroop Guggilam, Prasanna Seshadri] (??, ??, ?? points)

Shade some empty cells black (cells with numbers or letters cannot be shaded). All black cells connect along edges to create a single connected region. (It is permissible for the region to touch itself at a corner, but touching at a corner does not connect the region.) No 2x2 group of squares can be entirely shaded black.

Numbers in a cell indicate the lengths of contiguous black cell groups along the „ring“ of (up to) 8 cells touching that cell. (If there is more than one number in a cell, then there must be at least one white (unshaded) cell between the black cell groups.) The numbers are given in *no particular order*. As a special case, if the number given in a cell is a zero (0), it means that none of the cells around that cell may be shaded black.

Tapa Clue Examples



Enter the given words once each into the rest of the empty cells. Words must be written, one letter per cell, either across or down. All words formed by (orthogonally) touching letters in the grid must be in the word list. Some letters are already given for you. The words do *not* need to all be connected. As a special case, if a one-letter word is given, it cannot touch any other letter in the grid.

Answer: For each designated row, enter *just the letters* in that row, from left to right. Use 'x' for an empty row.

Example Answer: LIT, K

