







### B5-6. Fillomino (47, 55 points)

Divide the grid along the dotted lines into regions (called polyominoes) so that no two polyominoes with the same area share an edge. Inside some cells are numbers; each number must equal the area of the polyomino it belongs to. A polyomino may contain zero, one, or more of the given numbers. (It is possible to have a "hidden" polyomino: a polyomino without any of the given numbers. "Hidden" polyominoes may have any area, including a value not present in the starting grid, such as a 6 in a puzzle with only clues numbered 1-5.)

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

**Answer:** Enter the area of the polyomino 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 polyomino of size 10.

**Example Answer:** 82523655

8			1	4	
	2		4		
2					4
		6			6
1	5		2		
4				1	
		4	3		
	4	5			3

→ 8 2 5 2 3 6 5 5

4	4		4	4		8	8
				●			
5	5	●	1		●	4	4
	●		●	2		●	
			2				
5	5			1		4	4
●							●
8	8		5	5		4	4

5 →



3	2		●	1	7		1	2
			6		7			
	●		6		1		●	
2	3			6	5	●	1	2
			3		5			
●			5		5	●		
1	2			3	3		4	3
			3		●	6		●
			4	●		4		
2	1	●		4	4		4	3

6 →





**B9-10. Skyscrapers (27, 79 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

				5					
→	4	5	3	1	2		3		
	5	4	1	2	3		3		
4	1	2	4	3	5				
→	3	2	3	5	4	1			
	3	1	2	5	4				
				4	2				


3 4 4

3

9a →

9b →

3

3


3 3 2

10a →

10b →

4

4

2

2

3

3

2

2 5 5

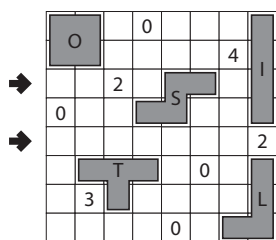
**B11-12. Shapesweeper (42, 53 points)**

Place all of the given shapes into the grid. The shapes may be rotated and/or reflected. Shapes cannot cover the numbered cells. Shapes cannot touch each other (not even diagonally). Numbered cells indicate how many of the surrounding cells (including diagonally adjacent cells) will contain a shape part.

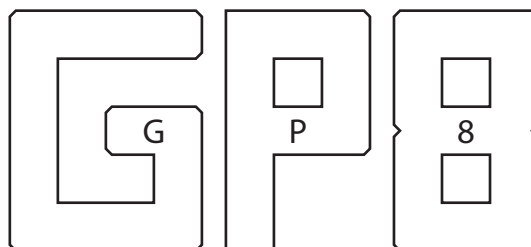
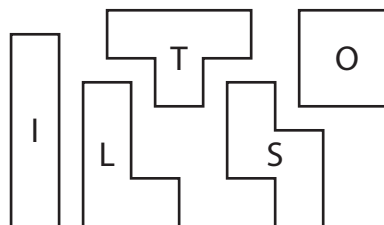
*The characters on the shapes are only used for entering your answer.*

**Answer:** For each designated row, enter the character for each shape that appears in that row, from left to right. Within a row, if a shape occupies more than one cell, enter that shape's character multiple times, once for each cell. If there are no shapes in that row, enter a single letter 'A'.

**Example Answer:** SSI, A



	4		4				
11a			4				
				4			
11b							
				2		2	



12a

				6		6	
12b							
	3					3	
12c							
	3					3	