Round 3: Powerhouses
Advanced Division

Name: _____

A.3.1	Nurikabe	2 points		A.3.10	Heyawake	2 points
A.3.2	Nurikabe	4 points		A.3.11	Heyawake	5 points
A.3.3	Nurikabe	18 points		A.3.12	Heyawake	9 points
A.3.4	Akari	2 points		A.3.13	Kakuro	2 points
A.3.5	Akari	3 points		A.3.14	Kakuro	7 points
A.3.6	Akari	7 points		A.3.15	Kakuro	20 points
A.3.7	Slitherlink	3 points				
A.3.8	Slitherlink	4 points				
A.3.9	Slitherlink	12 points				

Total: 100 points

A.3.1 – A.3.3: Nurikabe

Shade some cells so that all shaded cells form one orthogonally connected area and no 2x2 region is entirely shaded. Clues cannot be shaded, and every orthogonally connected area of unshaded cells contains exactly one clue, the value of which represents the size of the area.

Puzzle A.3.1 (2 points)

7							
						2	
5			3				
3			1				1
			2				5
	3						
							4

Puzzle A.3.2 (4 points)

5		5							
			2		5				
						1		4	
4		4							
				5		3			
							3		9

Puzzle A.3.3 (18 points)

|					6					
		3					3			
	3		12		7			3		
		3				4				
			8							

A.3.4 – A.3.6: Akari

Place lights into some empty cells so that every cell is illuminated. Lights illuminate the cell they're in as well as all cells seen in a straight line horizontally or vertically, not obstructed by a black cell. Lights may not illuminate each other. Clues represent the number of lights in the (up to) four cells surrounding the clue.
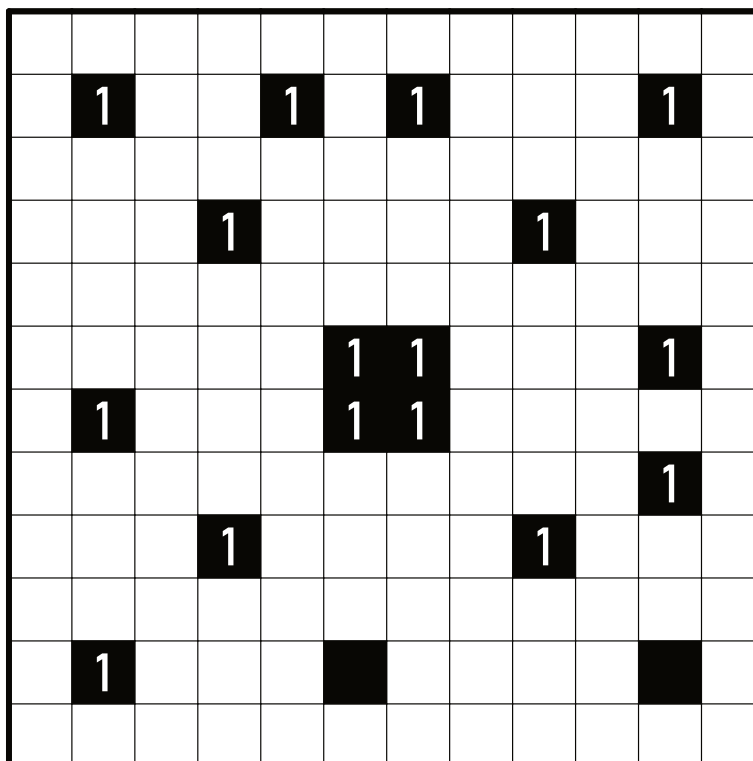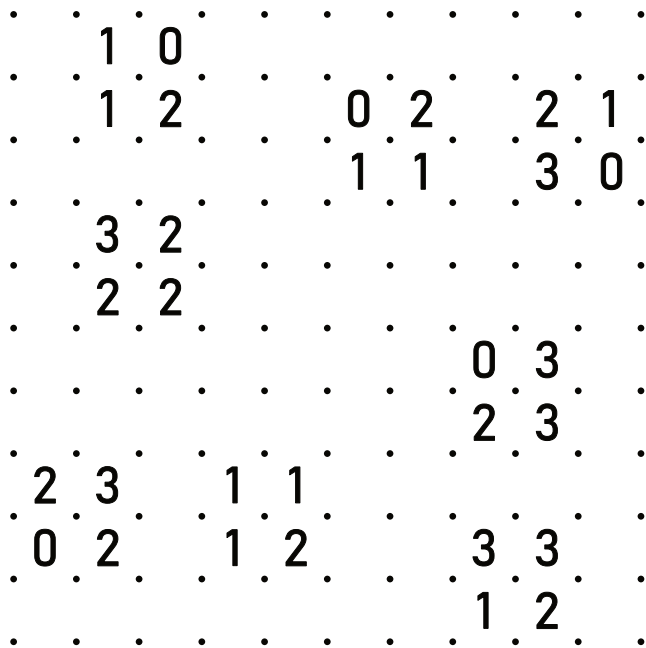
Puzzle A.3.4 (2 points)
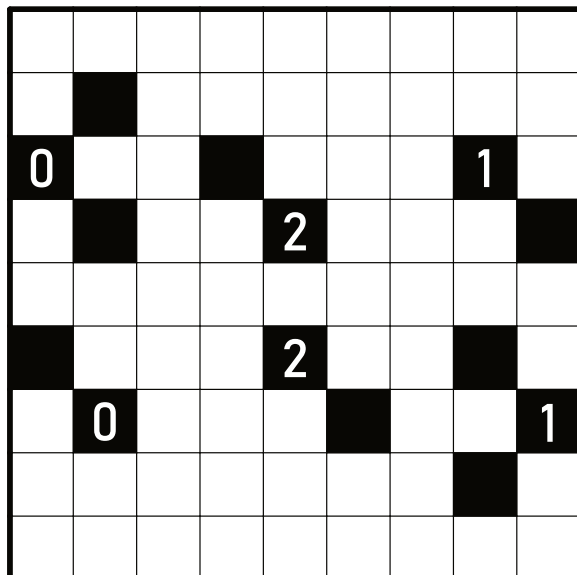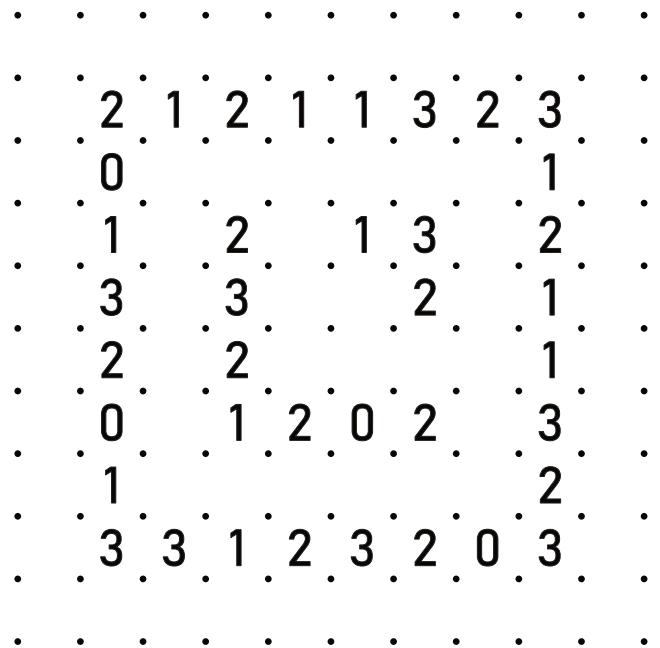
Puzzle A.3.5 (3 points)
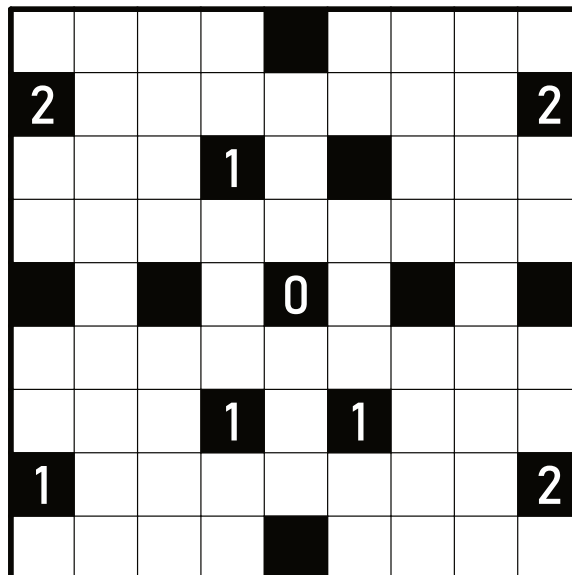
Puzzle A.3.6 (7 points)

A.3.7 – A.3.9: Slitherlink

Connect some pairs of orthogonally adjacent dots to form a single non-intersecting loop. Clues represent the number of edges drawn surrounding the clue (up to four).
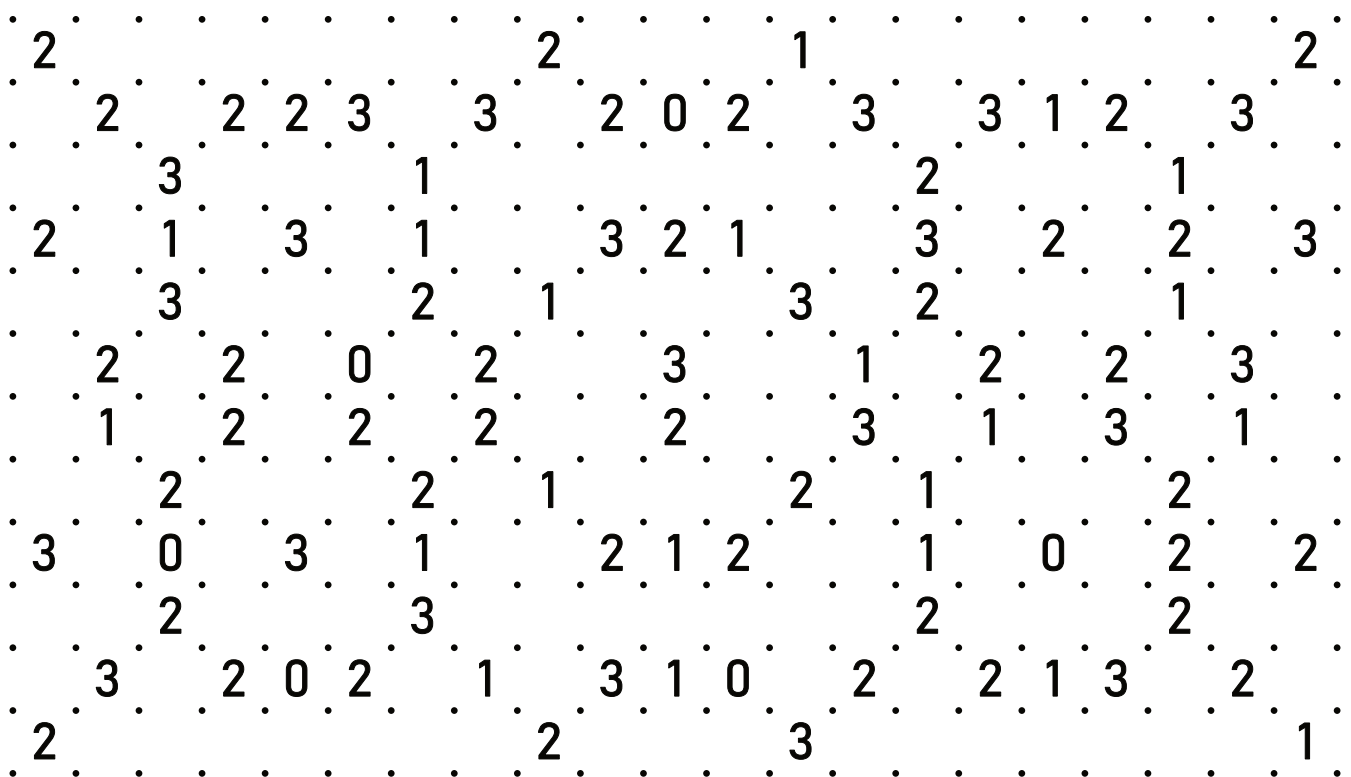
Puzzle A.3.7 (3 points)

Puzzle A.3.8 (4 points)

Puzzle A.3.9 (12 points)

A.3.10 – A.3.12: Heyawake

Shade some cells so that no two shaded cells are orthogonally adjacent and the remaining unshaded cells form one orthogonally connected area. Numbered regions must contain the indicated amount of shaded cells. A line of consecutive unshaded cells may not cross more than one bold border.

Puzzle A.3.10 (2 points)

Puzzle A.3.11 (5 points)
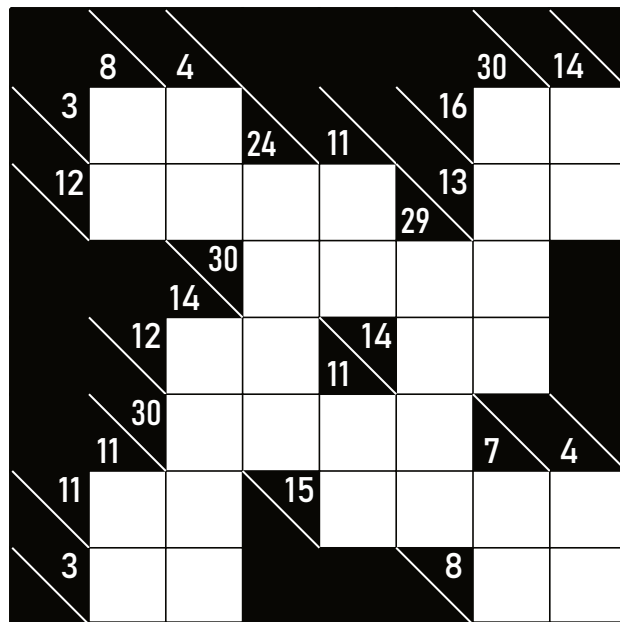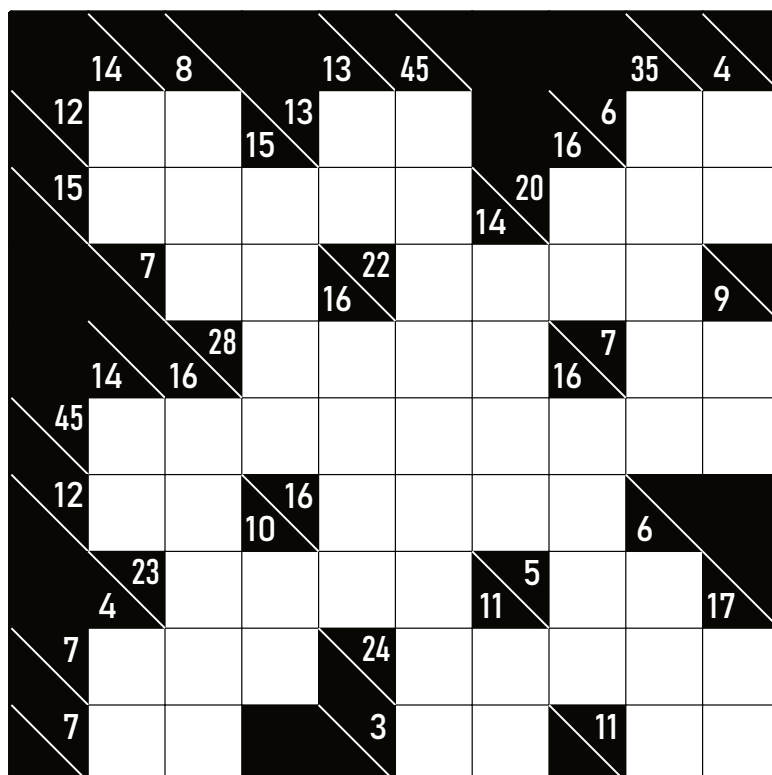
Puzzle A.3.12 (9 points)

A.3.13 – A.3.14: Kakuro

Place a number from 1 to 9 into each empty cell so that no number is repeated in any unobstructed horizontal or vertical line. A clue on the bottom of a blocked cell represents the sum of the numbers in the vertical line below it. A clue on the right side of a blocked cell represents the sum of the numbers in the horizontal line to its right. Clues cannot see numbers through other blocked cells.

Puzzle A.3.13 (2 points)

Puzzle A.3.14 (7 points)

A.3.15: Kakuro

Place a number from 1 to 9 into each empty cell so that no number is repeated in any unobstructed horizontal or vertical line. A clue on the bottom of a blocked cell represents the sum of the numbers in the vertical line below it. A clue on the right side of a blocked cell represents the sum of the numbers in the horizontal line to its right. Clues cannot see numbers through other blocked cells.

Puzzle A.3.15 (20 points)