Round 1: “Pop Culture”
Advanced Division

Name: _____

A.1.1	Sudoku	3 points
A.1.2	Sudoku	7 points
A.1.3	Sudoku	9 points
A.1.4	Numberlink	3 points
A.1.5	Numberlink	5 points
A.1.6	Numberlink	10 points
A.1.7	Tango	2 points
A.1.8	Tango	5 points
A.1.9	Tango	12 points
A.1.10	Hidato	2 points
A.1.11	Hidato	6 points
A.1.12	Hidato	12 points
A.1.13	Nonogram	4 points
A.1.14	Nonogram	5 points
A.1.15	Nonogram	15 points

Total: 100 points

A.1.1 – A.1.3: Sudoku

Insert a number from 1 to 9 (1 to 6 in the first puzzle) so that no number repeats in any row, column, or box.

Puzzle A.1.1 (3 points)

	1				
		2		6	
	3				2
4				3	
	6		4		
				5	

Puzzle A.1.2 (7 points)

					1	7		
					6	3		
1	2	3	4		8	5		
5	6	7	8		4	2		
		4	7		3	1	5	8
		8	1		7	6	4	2
		5	3					
		2	6					

Puzzle A.1.3 (9 points)

8		1				4		9
				2				
4		5				7		2
			1		3			
	4						6	
			7		5			
1		3				8		7
				8				
6		8				1		4

A.1.4 - A.1.6: Numberlink

Draw non-intersecting paths through the centers of some cells, each connecting one clue to its equal counterpart.

(Note: all cells will be used in the final solutions to these puzzles.)

Puzzle A.1.4 (3 points)

				1						
	3	4							5	
				6				7		
		6						1		
		4						8		
		2						5		
		8				9				
	7							3	9	
						2				

Puzzle A.1.5 (5 points)

											1	2	
		3						1	4				
						3							
	5			6						7			
	8												
		7		8	9				4	10		11	
												5	
				11						6		12	
								12					
					2	13						13	
	10	9											

Puzzle A.1.6 (10 points)

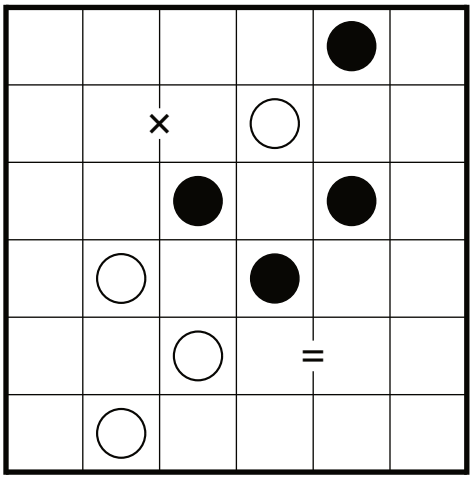
		1					2	3				4									5		
				6														7	8				
									2					6		4							
		8						9			10						11				10		
		5				12						9			3						13		
							16		15					11									
				14	13													15					
		1									16				12	7				14			

A.1.7 - A.1.9: Tango

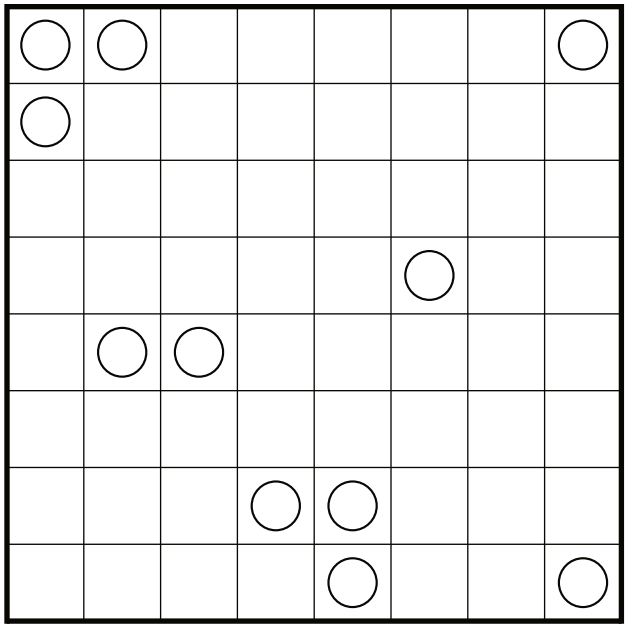
Fill each cell with a black or white circle so that no vertical or horizontal group of three adjacent circles is the same color and each row and column contains an equal number of each color. Cells separated by an equals sign (=) must contain the same color. Cells separated by a cross (×) must contain different colors.

For notation, you can either use black and white circles, or any set of two distinguishable symbols, like A and B, as long as you make it clear which represents which.

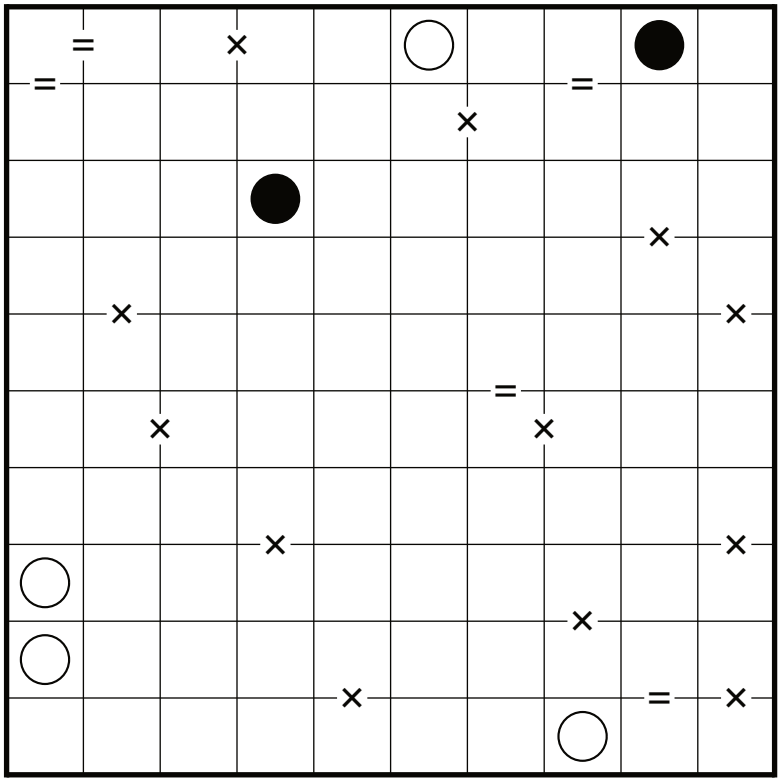
Puzzle A.1.7 (2 points)



Puzzle A.1.8 (5 points)



Puzzle A.1.9 (12 points)



A.1.10 – A.1.12: Hidato

Place a number from 1 to N into each cell so that every number appears once, where N is the total number of cells in the grid. Every number must be adjacent (orthogonally or diagonally) to all numbers in the grid that are consecutive with it.

You can either place all numbers or draw a complete path.

Puzzle A.1.10 (2 points)

		3	11	10	
1	7	35			
			16	20	22
	30	27	18		

Puzzle A.1.11 (6 points)

52		47			23		25
50		14			57		42
18		8			11		1
34		36			3		64

Puzzle A.1.12 (12 points)

		27					4		
	77		24			31		17	
74				1	20				8
	79							11	
		70					13		
		100					35		
	92							36	
95				84	87				63
	53		47			43		64	
		49					41		

A.1.13 – A.1.14: Nonogram

Shade some cells so that the clues outside the grid represent the lengths of the blocks of consecutive shaded cells in the corresponding row or column, in order. Rows or columns without clues do not contain any shaded cells.

Most puzzles resolve to a recognizable picture of some sort; this is not required for uniqueness, but you may find it helpful when solving. Puzzles which do not resolve to a picture are marked with a star.

Puzzle A.1.13 ☆
(4 points)

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

Puzzle A.1.14
(5 points)

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

A.1.15: Nonogram

Shade some cells so that the clues outside the grid represent the lengths of the blocks of consecutive shaded cells in the corresponding row or column, in order. Rows or columns without clues do not contain any shaded cells.

Most puzzles resolve to a recognizable picture of some sort; this is not required for uniqueness, but you may find it helpful when solving. Puzzles which do not resolve to a picture are marked with a star.

Puzzle A.1.15 (15 points)

				1	3	5 2	7 4	11	8	1 7	3 1 6	4 1 6	8 6	8 6	8 4	6 4	4 4	4 6	6 8	17	4 5 4	2 3 2	1
			1																				
			3																				
		5	2																				
		7	4																				
			12																				
			9																				
		1	8																				
		3	9																				
4	1	3	3																				
	7	1	3																				
		6	4																				
		6	4																				
		6	4																				
		6	4																				
		8	6																				
			17																				
		4	12																				
	2	5	4																				
		3	2																				
			1																				