

# 7 by 7 More or Less

Place the number 1 to 7 such that each row and column contains the digits 1 to 7. More or less symbols are placed between some of the cells indicating that numbers must be higher or lower than a neighbouring cell.

□	>	□	□	<	5	□	>	□	<	□	
		∨	∧	∧							
5	>	□	<	□	7	>	□	<	6	□	
		∧	∨								
□	□	5	>	□	□	□	□	□	□		
∧										∨	
□	5	>	□	6	>	2	<	□	1		
□	□	>	□	>	□	□	<	3	□		
4	>	□	7	>	□	5	>	□	<	□	
∨			∨								
□	<	□	>	□	>	□	□	>	□	<	□

□	<	7	>	□	<	6	□	3	>	1
∧		∨		∨		∨		∨		
□	>	□	<	6	>	□	□	□	<	3
				∨		∧		∨		
□	>	3	□	>	2	□	□	□	□	
□	>	□	□	<	4	>	□	□	□	
			∧	∨						
□	<	6	□	□	<	2	□	□	□	
∨										
□	<	□	<	7	□	□	<	6	□	
				∨				∧		∧
3	1	□	□	□	□	□	□	□	4	

# Answers

Place the number 1 to 7 such that each row and column contains the digits 1 to 7. More or less symbols are placed between some of the cells indicating that numbers must be higher or lower than a neighbouring cell.

6	>	3		1	<	5		7	>	2	<	4
		∨		∧		∧						
5	>	1	<	4		7	>	3	<	6		2
				∧		∨						
1		6		5	>	2		4		7		3
∧												∨
7		5	>	3		6	>	2	<	4		1
2		7	>	6	>	4		1	<	3		5
4	>	2		7	>	3		5	>	1	<	6
∨				∨								
3	<	4	>	2	>	1		6	>	5	<	7

2	<	7	>	4	<	6		5		3	>	1
∧		∨				∨		∨				
7	>	4	<	6	>	5		1		2	<	3
						∨		∧		∨		
4	>	3		5	>	2		7		1		6
6	>	2		1	<	4	>	3		7		5
				∧		∨						
5	<	6		3		1	<	2		4		7
∨												
1	<	5	<	7		3		4	<	6		2
				∨				∧				∧
3		1		2		7		6		5		4