



### 23.1 TomTom

Insert a number from 1 to N into each cell in the N by N grid so that no number repeats in any row or column. Also, the number in the upper-left corner of each bold cage indicates the value of a mathematical operation (addition, subtraction, multiplication, division) applied successively to all numbers in the cage, starting with the largest number for subtraction and division (e.g. 1,2,4 with subtraction is a 1- clue as  $4-2-1 = 1$ ). The operation may or may not be given in the cage, but at least one of the four operations must apply. Numbers can repeat within a cage.

{1-6}

30		5		30	
	15		16		
	15			10	
8					48
		2			