

# Part 1 – Classical MARCH

U.S. Sudoku Team—Qualifying Test  
March 28, 2010

## 1. Standard Sudoku – 15 points

Place a digit from 1 to 9 into each of the empty squares so that each digit appears exactly once in each of the following 27 regions: the nine rows, the nine columns, and the nine outlined 3x3 regions.

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



Answer: Enter the first row of digits, followed by the third row of digits.

## 2. Diagonal Sudoku – 15 points

Standard Sudoku rules apply. Additionally, each digit appears exactly once in each of the two main diagonals.

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



Answer: Enter the fifth row of digits, followed by the seventh row of digits.

**3. Odd Sudoku – 15 points**

Standard Sudoku rules apply. Additionally, shaded squares must contain odd digits

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



Answer: Enter the fourth row of digits, followed by the sixth row of digits.

**4. Odd+Diagonal Sudoku – 20 points**

Standard Sudoku rules apply. Additionally, each digit appears exactly once in each of the two main diagonals, and shaded squares must contain odd digits

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



Answer: Enter the third row of digits, followed by the fifth row of digits.

**5. Even Sudoku – 20 points**

Standard Sudoku rules apply. Additionally, shaded squares must contain even digits.

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



Answer: Enter the sixth row of digits, followed by the ninth row of digits.

**6. Even+Diagonal Sudoku – 20 points**

Standard Sudoku rules apply. Additionally, each digit appears exactly once in each of the two main diagonals, and shaded squares must contain even digits.

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



Answer: Enter the fourth row of digits, followed by the eighth row of digits.

**7. Killer Sudoku – 20 points**

Standard Sudoku rules apply. Additionally, the sum of the numbers in each outlined region is equal to the corresponding number given in a corner of the outline. No digit is repeated within a given outlined region.

12			3			12			30		
11			14			15			6		5
14						13			12		
9									15		18
15			26			8					
			11			21			14		5
16			19			7					17
			12			13					6
						9			16		9

Answer: Enter the seventh row of digits, followed by the ninth row of digits.

**8. Irregular Sudoku – 25 points**

Place a digit from 1 to 9 into each of the empty squares so that each digit appears exactly once in each of the following 27 regions: the nine rows, the nine columns, and the nine outlined regions.

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

Answer: Enter the second row of digits, followed by the seventh row of digits.

End of Part 1