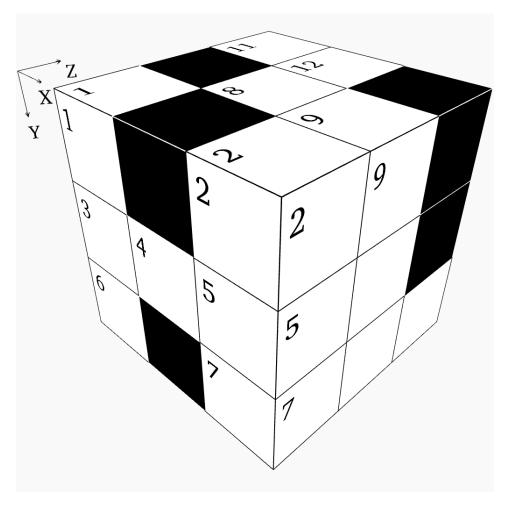
Cube - Intermediate Puzzle #26



This puzzle is like a crossword, but with numbers. Each digit occupies a 3D block and can be a part of a "word" in the X,Y, and Z directions.

Rules:

- 1. "Words" may not start with a zero.
- 2. "Words" in the X direction read from left to right.
- 3. "Words" in the Y direction read from top to bottom.
- 4. "Words" in the Z direction read from front to back.
- 5. There is one unique solution which satisfies all the clues given below.
- 6. Some "words" may not have clues. They will be determined by the "words" which intersect them.

If we take the cube pictured above and divide it into individual X-Y layers, we will get these planes:

1		2	8	9	11	12	
		_	10		1.0		
3	4	5	10		13		
					1.4		
6		7			14		

X Direction

- **3** Y2 minus Z2
- **8** All digits are the same
- **10** Z4 minus Y8
- 11 Three times a prime number
- **13** Twice a prime number
- **14** Mean of Z5 and Z6

Y Direction

- **1** Y9 minus X8
- **2** Consecutive digits unordered
- 8 Twice Z29 Twenty-three times a prime number
- **11** Z2 plus Z7
- **12** X13 plus half of X10

Z Direction

- 2 A square
- 4 Twice Z8
- **5** A square
- **6** Half of Y1
- **7** Y11 minus half of Y8
- 8 Mean of X10 and Y8

Solution:

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