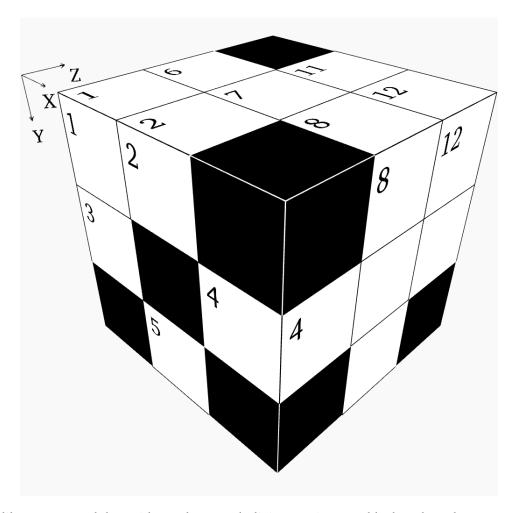
Cube - Intermediate Puzzle #49



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		6	7	8		11	12
3		4	9					
	5		10			13		

X Direction

- 1 X9 minus Y8
- 6 Mean of Y7 and Z8
- **9** X10 minus Y1
- **10** Four times a prime number
- 11 Consecutive digits in ascending order 12 Z8 reversed
- **13** Z10 minus Z1

Y Direction

- 1 Mean of X1 and Z10
- **6** Twice X11
- **7** X6 plus Y1
- 8 Fourteen times a prime number

Z Direction

- 1 Three-fifths of Y12
- 2 Z8 plus half of Y8
- **3** Y12 minus X13
- **4** Three-fourths of Z5
- **5** Eighty-two times X13
- **8** X6 minus Y1
- 10 A prime number

Solution:

5	3		1	1	5		7	8
7		6	5	7	1			5
	8		6	2	8	1	0	