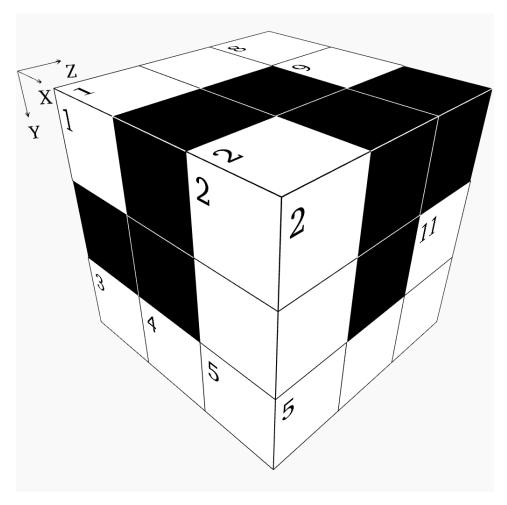
Cube - Intermediate Puzzle #29



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	
				6	10		11
3	4	5	7			12	

X Direction

- **3** Z4 minus X8
- **7** Z3 plus Y11
- 8 Same as Y8
- 10 Half of Z1, then subtract X8
- **12** Four times a prime number

Y Direction

- 2 Twice Y9
- 6 Same as Z6
- **8** X7 minus Y11
- **9** Z6 plus half of X12
- **11** X7 minus X8

Z Direction

- **1** Eleven times a square
- 3 Half of X3, then subtract Y2
- 4 Z5 minus Z65 Z4 plus Y6
- **6** Three times a prime number

Solution:

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