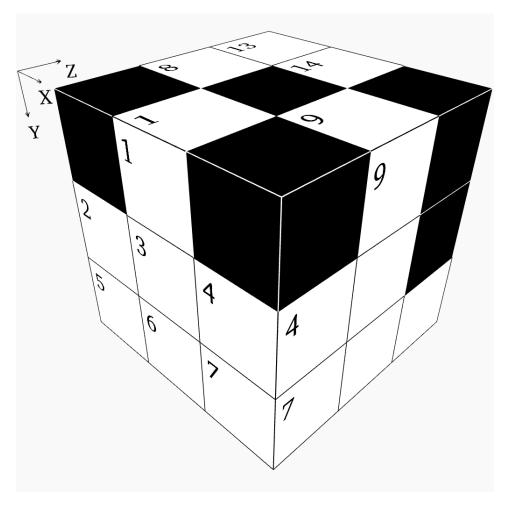


# **Cube - Intermediate Puzzle #47**



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		8		9	13	14	
2	3	4	10	11				
5	6	7		12		15		

#### **X** Direction

- 2 Z3 plus Y11
- **5** Thirteen times Y11
- **10** Four times a prime number
- **12** All digits are the same
- **13** A square
- **15** Twelve more than Y2

## **Y Direction**

- 1 Four times X10
- **2** X10 minus Z8
- **4** Twice the result of X15 minus Z2
- **8** X13 plus half of Z8
- **9** Y14 plus Z4
- **11** Half of Y2
- **14** Twenty-two times X13

#### **Z** Direction

- 2 Mean of Y4 and X10
- 3 X2 minus half of Y2
- 4 Mean of X13 and Y8
- **6** Y1 minus half of X5
- **7** Eight times a prime number
- **8** X5 divided by twelve

# **Solution:**

	5		5		5	2	5	
9	9	3	1	4	8		5	
6	2	4		8	8	1	0	8