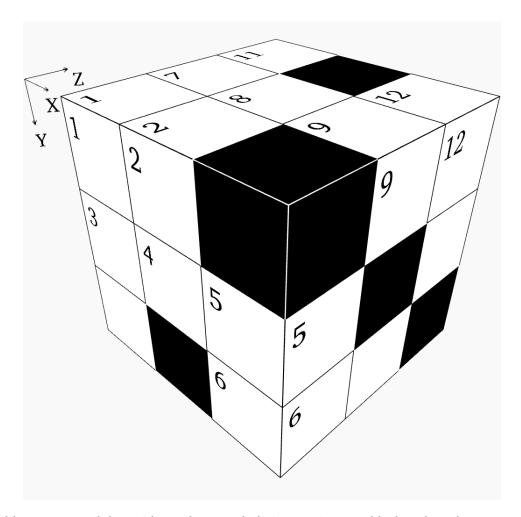
# **Cube - Intermediate Puzzle #36**



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		7	8	9	11	12
3	4	5	10				
		6				13	

#### **X** Direction

- **1** X10 minus Y12
- **3** Three times a prime number
- **7** Five times Y5
- **10** Y11 minus Z9
- **13** Twice a prime number

#### **Y Direction**

- **1** Y8 plus half of Y7
- **2** Z4 minus half of X13
- 5 Mean of Y11 and X17 Two-thirds of Z9
- 8 Mean of X1 and X3
- **11** Y2 plus X10
- **12** A prime number

### **Z** Direction

- **1** A prime number
- **2** X3 divided by three
- 3 X10 plus Z6 4 X13 plus Y7
- 6 X3 minus Y5
- 9 Mean of Z4 and X13

## **Solution:**

1	5		3	9	5	1		7
1	f	Ŧ	8	6		4		1
5		9			8	3	8	