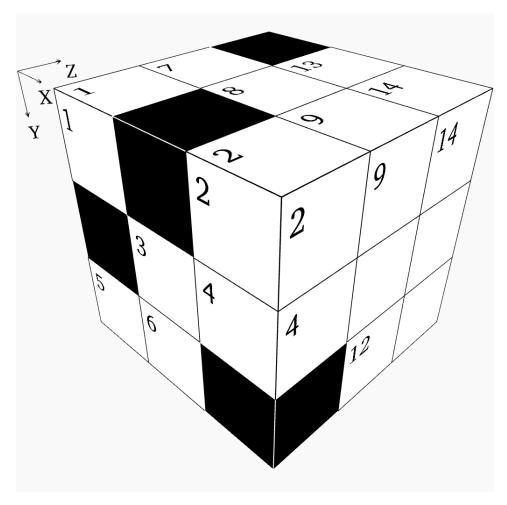
# **Cube - Intermediate Puzzle #28**



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		13	14
	3	4		10		15		
5	6		11		12			

#### **X** Direction

- 3 Mean of Y13 and Z1
- **5** X13 minus Z8
- **7** A square
- **10** Z4 divided by five
- **11** A prime number
- **13** Three times a prime number
- 15 Six times Z1

### **Y Direction**

- **2** Y3 divided by seven
- 3 Z2 minus Z8
- **8** Seven times a prime number
- **9** A prime number
- **13 Z**5 minus Z1
- **14** Twice a prime number
- **15** Consecutive digits in ascending order **8** X5 plus Z1

### **Z** Direction

- **1** Y13 minus Y15
- 2 Y2 plus half of Y14
- **3** Three times a prime number
- 4 Twice the result of Z3 minus Y8
- **5** Twice X3
- 6 Mean of Y3 and X5
- 12 Sum of digits in X15

## **Solution:**

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