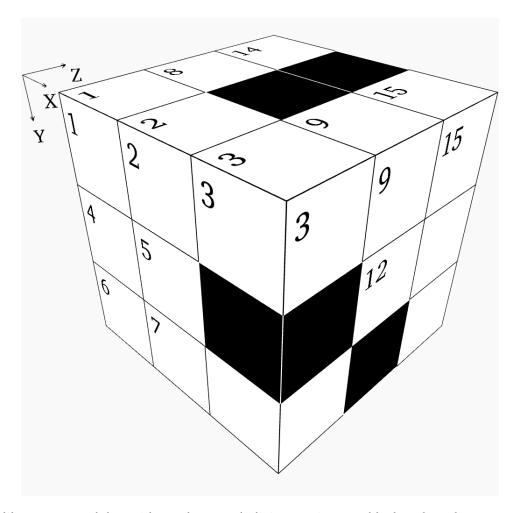


Cube - Intermediate Puzzle #1



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	3	8		9	14	15
4	5		10	11	12	16	
6	7		13				

X Direction

- **1** Four times Y14
- **4** Twice a prime number
- **6** Y9 times Z6
- **10** Rearranged digits of X6
- **13** Z4 divided by fifty-seven
- **16** Twenty-one times a prime number

Y Direction

- 1 Mean of X1 and Y2
- **2** Twice a prime number
- **8** Seven times a prime number
- **9** X10 divided by forty-one
- **11** Same as X13
- **14** A prime number
- 15 Fourteen times Z7

Z Direction

- 1 Five times a prime number
- **3** A prime number
- **4** Fifty-seven times Y11
- **5** Half of Y15, then subtract Y14
- **6** A prime number
- **7** Y8 minus X4
- 12 A prime number

Solution:

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