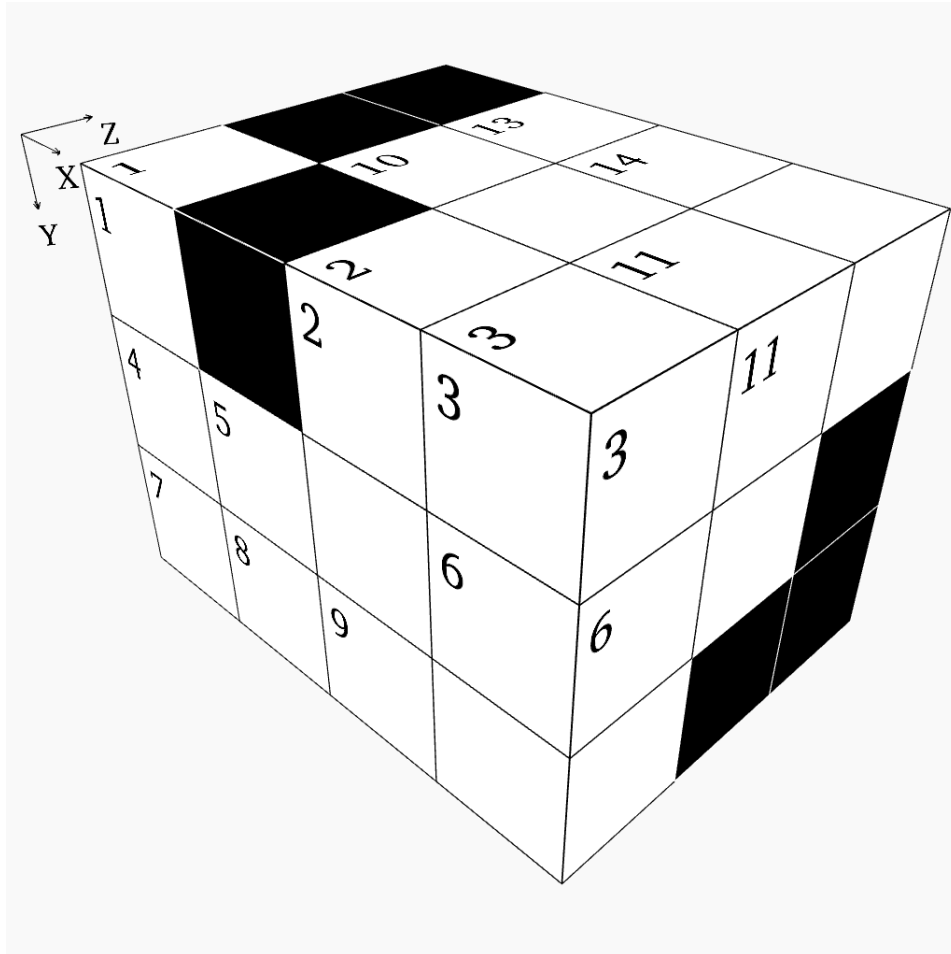


## Box - Intermediate Puzzle #5



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 box pictured above and divide it into individual X-Y layers, we will get these planes:

1		2	3		10		11		13	14	
4	5		6					15			
7	8	9		12				16			

**X Direction**

- 2 Y10 divided by seventy-six
- 4 A prime number
- 7 Sixty times Z10
- 10 Twice a prime number
- 12 Mean of Y3 and Z5
- 13 Four times a prime number
- 15 Y15 plus Z10
- 16 Twice a prime number

**Y Direction**

- 1 Z8 minus half of Y14
- 2 Z3 minus Y11
- 3 Sixteen less than Z9
- 5 Z3 minus Z6
- 10 Rearranged digits of X16
- 11 Z8 minus Y14
- 13 Sixteen less than X13
- 14 Forty-two more than Z3
- 15 Z2 divided by fourteen

**Z Direction**

- 2 Twice the result of Y2 minus X2
- 3 Four times a prime number
- 5 Ten times a prime number
- 6 X12 divided by five
- 7 Y13 minus Y1
- 8 Y11 plus Z9
- 9 Same as Y14
- 10 Mean of Y5 and Y2

**Solution:**

1	■	1	1	■	8	8	6	■	7	2	4
6	7	0	9	■	3	■	2	1	0	0	■
5	2	2	0	4	6	0	■	3	8	6	■