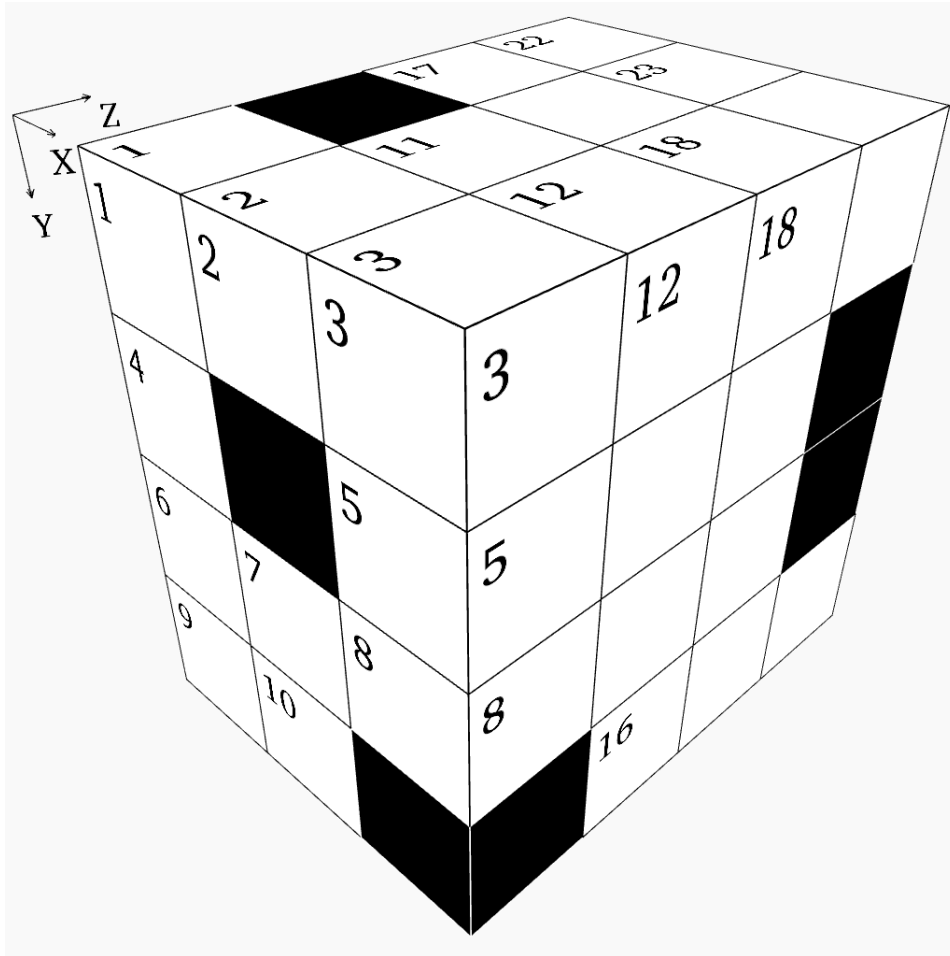


Difficulty: ★★☆☆☆

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

1	2	3		11	12	17		18	22	23	
4		5	13						24		
6	7	8		14		19	20		25		
9	10			15	16		21		26		

**X Direction**

- 1 Rearranged digits of X6
- 6 Fifty-one times X25
- 9 Z8 minus X15
- 11 Same as Y7
- 13 Twenty-five times X25
- 14 Mean of X24 and Y20
- 15 Half of X21
- 17 Twice a prime number
- 19 Y17 reversed
- 21 Twice the result of Z8 minus X9
- 22 Y17 minus X26
- 24 Seven times X25
- 25 Y22 divided by X1
- 26 Five times a prime number

**Y Direction**

- 1 A prime number
- 3 A prime number
- 7 Same as Z19
- 11 Seventy-six times a prime number
- 12 Y3 plus Y17
- 17 X19 reversed
- 18 Twenty-eight times a prime number
- 20 Half of X19, then subtract X13
- 22 Two hundred fifty-seven more than Y1
- 23 Twice a prime number

**Z Direction**

- 2 Six times a prime number
- 3 A prime number
- 4 Thirty-one times a prime number
- 5 Twice a prime number
- 7 Y23 minus X24
- 8 X11 plus X24
- 10 Mean of Y12 and Y1
- 16 Mean of X19 and X17
- 17 A square
- 19 Y18 minus half of Z2

**Solution:**

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