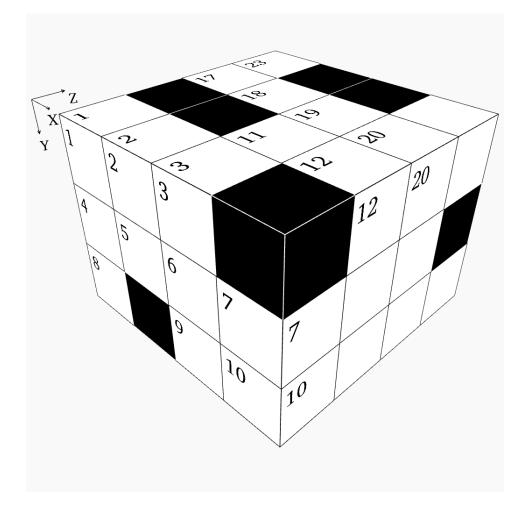


Box - Challenging Puzzle #36

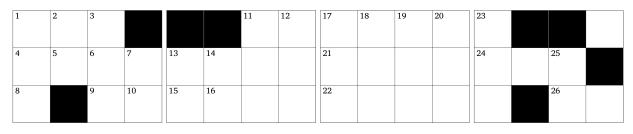


This puzzle is like a crossword, but with numbers. Each digit occupies a 3D block and can be a part of a "word" in the X,Y, and Z directions.

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



X Direction

- **1** Y23 minus Y13
- 4 Eight times a prime number
- **9** X1 minus Y19
- **11** Y19 divided by seventy-two
- 13 Nine hundred seventy-nine less than Z5
- **15** Six times a prime number
- **17** Twice the result of Z10 minus X13
- **21** A prime number
- **22** Half of X4, then subtract Y1
- **24** Z5 divided by Y25
- **26** Mean of X9 and Y13

Y Direction

- **1** Y23 minus Y7
- 2 Same as X9
- **3** Y11 minus half of Z16
- **7** Half of Y12
- 11 Rearranged digits of Z3
- **12** Y20 reversed
- 13 Y23 minus Y20
- **14** Z16 reversed
- **17** Twenty-one times X11
- 18 A square
- **19** X1 minus Y2
- **20** Y12 reversed
- **23** Four times a prime number
- **25** Same as Z16

Z Direction

- **3** Three times Y2
- **4** A prime number
- **5** X24 times Z16
- **6** A prime number
- **7** Three times a prime number
- **8** Four times a prime number
- **9** Six times a prime number
- **10** Forty-four times a prime number
- 12 Twice the result of Y17 minus Y12
- 16 Y12 minus X26
- 17 A prime number

Solution:

8	3	1				1	1	2	2	7	8	9		6
			6											
7		3	٩	5	7	1	8	1	6	2	1	6	6	2