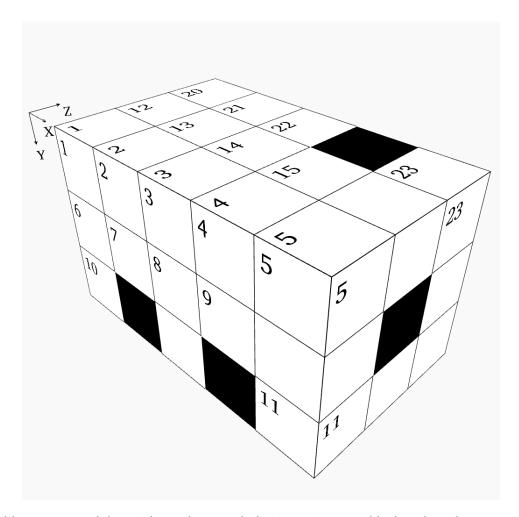


Box - Intermediate Puzzle #6



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	4	5	12	13	14	15	20	21	22		23
6	7	8	9			16				24		25	
10				11	17	18		19	26			27	

X Direction

- **1** First two digits are the same as first two digits of Y1
- **6** First two digits are the same as Y2
- 12 Last two digits are the same as last two digits of Z2
- **16** Ten times Z18
- 17 Z10 minus Z5
- 19 A prime number
- **20** Z5 reversed
- **24** Twice a prime number
- **26** Mean of Y25 and X27
- 27 X26 plus Z19

Y Direction

- 1 X27 plus Y23
- **2** Z5 divided by Y22
- 3 Mean of Y13 and X17
- 4 Z8 divided by Z4
- **5** Five times X17
- **13** One hundred eighty-seven more than **7** Y3 plus Y14 Y1
- 14 X27 minus Y25
- **15** Nine times a prime number
- **21** Rearranged digits of Z7
- **22** Z4 minus Y2
- **23** Mean of X20 and Z11
- **25** Y4 plus Y2

Z Direction

- **1** Y23 plus Y5
- 2 Half of Y21, then subtract Z9
- **3** A prime number
- **4** Z5 divided by seven
- **5** A square
- **8** Forty-six times Y2
- **9** Y15 minus Z7
- 10 Mean of Z3 and X19
- **11** Three times a prime number
- 18 Y4 plus X27
- **19** X26 minus Y25

Solution:

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