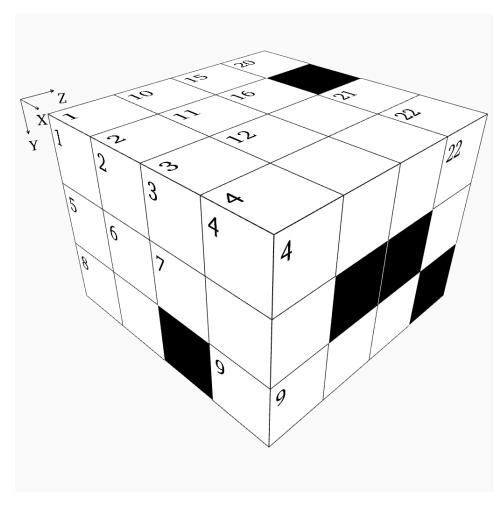
Box - Intermediate Puzzle #14



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

X Direction

- 1 Y12 times X21
- **5** Z9 plus X18
- **8** X14 minus Z17
- **10** Seventy-three times a prime number
- 13 Same as Z7
- 14 A square
- **15** A prime number
- **17** Y22 divided by seven
- **18** Z6 plus half of Z9
- **21** A cube
- 23 X1 minus half of Z2
- 25 Twice the result of Y24 minus X17

Y Direction

- **1** All digits are the same
- 2 Seventeen times X25
- 3 Same as Y11
- **4** Mean of Y1 and X8
- 11 Twice the result of Y12 minus Z7
- **12** Y16 minus Y2
- **15** Y2 minus Y12
- **16** Nineteen times a prime number
- **20** Eight times Y12
- **21** Mean of X8 and Y24
- **22** X23 divided by thirty-one
- **24** Mean of Y21 and X14

Z Direction

- 1 Sixteen times a prime number
- 2 Y20 minus X14
- **3** Twice the result of X15 minus Z1
- **4** Sixty-three times a prime number
- **6** A prime number
- **7** Y24 plus Y21
- **8** Twice the result of Z4 plus X13
- **9** Six times a prime number
- **14** X17 plus Y21
- **17** Z19 minus X13
- 19 X21 reversed

Solution:

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