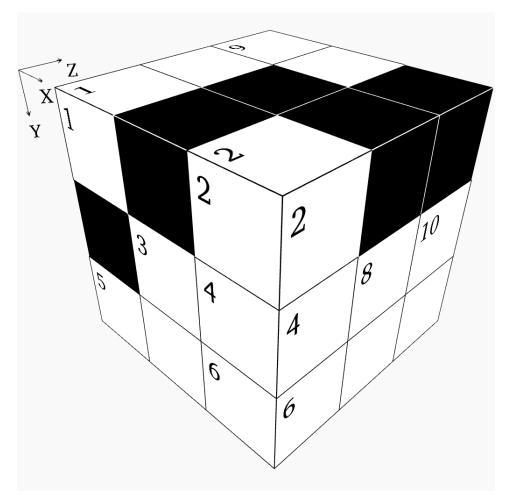


Cube - Intermediate Puzzle #17



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

1		2			9	
	3	4	7	8		10
5		6			11	

X Direction

- **3** Mean of Y8 and Z3
- **5** Half of X11, then subtract Y10
- **7** Z3 reversed
- **9** A square
- **11** Forty less than Z4

Y Direction

- **2** A prime number
- **3** A prime number
- **8** Y2 minus Y9
- **9** Twenty-eight times a prime number
- **10** All digits are the same

Z Direction

- 1 X3 plus half of X7
- 3 Mean of Y10 and Z5
- **4** Twice a prime number
- 5 A square6 Fifty-six times a prime number

Solution:

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