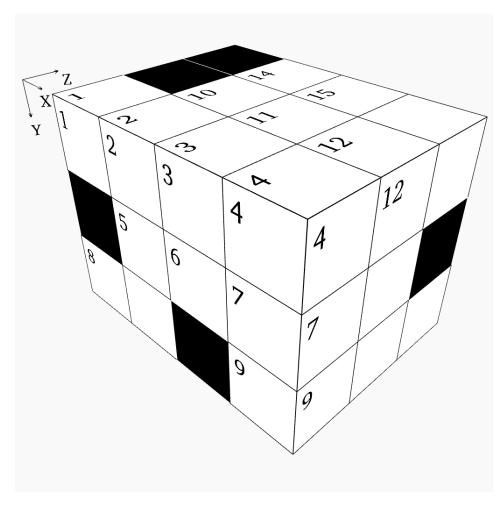


Box - Intermediate Puzzle #21



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		14	15	
	_		_	1.0				1.6			
	5	6	7	13				16			
8			9					17			

X Direction

- 1 Twice a square
- Twenty-one more than Y15
- **8** Twice the result of Z2 minus Y12
- X14 plus Y15
- Twelve times a prime number
- Fourteen times Z13
- Six times a prime number
- Eighty-five times a prime number

Y Direction

- Eight times a prime number
- Half of X5, then subtract Z9
- 4 A prime number
 10 Consecutive digits in ascending order
 5 Y14 minus half of Y11
- Ten times a prime number
- A prime number
- 14 Mean of Y4 and Y16
- Mean of Y10 and Z6
- Y15 divided by Z13

Z Direction

- Thirty-eight more than Y2
- A prime number

- Y4 minus half of X14
- Six times a square
- Five times a prime number
- X10 divided by twenty-five

Solution:

1			8			5				4
	3	6	2	3	8					
6	6		1			1	1	6	1	5