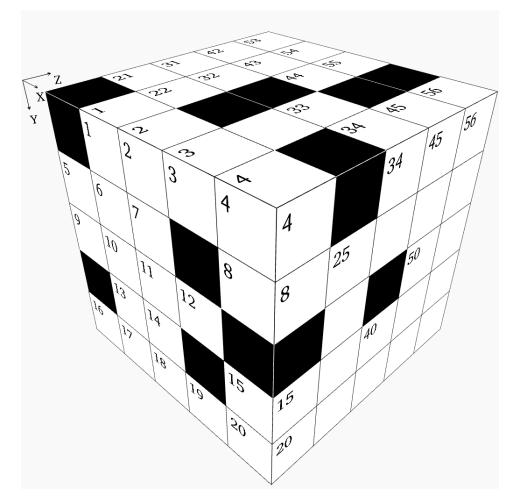


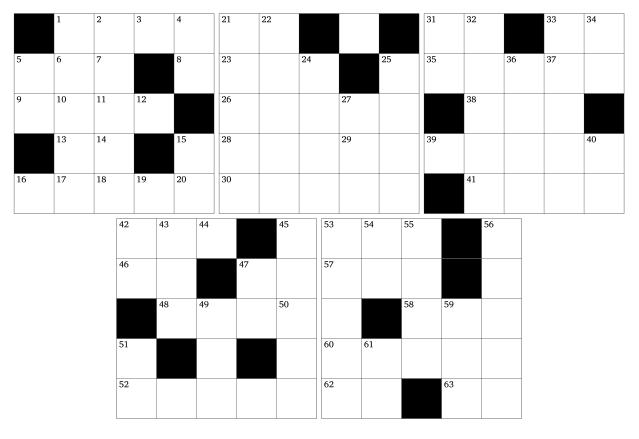
# Cube - Hard Puzzle #3



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.



#### **X** Direction

- **1** A prime number
- **5** Twenty-six times Y4
- **9** Eighty-three times Y61
- 13 Z37 minus Z44
- **16** Twice a prime number
- **21** Y59 divided by Y15
- 23 Three times Y47
- 26 Z21 times Z50
- 28 Ten times Z28
- **30** Last two digits are the same as Y42
- 31 Mean of X63 and Z50
- 33 Z16 plus Y4
- **35** Two thousand one hundred forty-one **32** Twelve thousand four hundred twenty **14** Seventeen times a prime number less than Z14
- 38 Mean of Y5 and Y49
- **39** A prime number
- 41 Eight hundred seventy less than Z15
- 42 X53 minus Y51
- 46 A square
- **47** Y49 minus X53
- 48 One thousand three hundred seventy more than Y55
- **52** Mean of Y33 and Z28
- **53** One hundred forty-eight more than Z13
- 57 Z9 plus Z37
- **58** Twice a prime number
- **60** Ninety times a prime number
- 62 Same as Z29
- 63 Mean of X46 and Y61

## **Y** Direction

- **1** Mean of Z11 and Y24
- **2** A prime number
- 4 Half of Z37, then subtract Y5
- 5 X31 plus Y61
- 15 X47 minus Y42
- **21** Three times a prime number
- **22** Thirteen thousand three hundred twenty-six more than Z17
- **24** Twenty-six times a prime number
- **25** Z3 times Z16
- 27 Mean of Y43 and X5
- 31 X13 minus Y54
- more than Y33
- 33 Six thousand six hundred seventy-one 16 X13 minus X63 more than Z11
- 34 Y42 minus Y15
- **36** Seventy-eight times a prime number
- 40 Mean of X63 and Y54
- 42 Z12 divided by X42
- 43 Z1 divided by X57
- **45** Twenty-eight times a prime number
- 51 Mean of Y5 and Y31
- 53 Y32 plus half of Z20
- 54 Y61 plus X46
- 55 Half of X28, then subtract Y45
- **56** Seven times a square
- 59 Mean of Z18 and Z29
- 61 Sum of digits in Y59

### **Z** Direction

- **1** Twenty-six times a square
- **3** Twice a prime number
- **5** A prime number
- **6** Fifty times a prime number
- 7 Y43 plus Z13
- 8 Four thousand seven hundred seventy-three more than X30
- **9** A square
- **10** First two digits are the same as Y51
- **11** Twelve times a prime number
- 12 Y21 minus Z13
- 13 Z34 minus X46
- **15** Twice the result of X35 minus Y56
- **17** Ninety-five times a prime number
- 18 Z14 minus X30
- 19 Mean of Y2 and X39
- **20** First two digits are the same as first two digits of Z10
- 21 X26 divided by Y15
- 28 A square
- **29** Z44 plus Y34
- **34** Twice the result of X23 plus X21
- **37** Mean of X57 and Y42
- 44 Y51 plus Y31
- 50 Y59 divided by X21
- 52 Y31 plus Z9

- 47 X46 plus Y34
- 49 X58 minus Z16

## Solution:

	2	3	1		1	5		6		9			1		6		4	6
3	3	8			3	2	. !	5	5			6	3	5	0	3	8	0
1	2	4	5	5		6		2 1		2	2	4			4	3	0	
	5	3			1	5		9	2	9		0	٩		7	5	5	3
3	5	1	6	•	2	3		1	2	F	•	2			٩	4	٩	0
			7	2	3	3		2		7	4	5	;		2			
			2	5			8	4		1	0	4			5			
				6	8	3	5	1		4		8	3	6	2	2		
			2		2	2		6		٩	1	1		7	0			
			2	6	٩		٩	4		٩	5			2	0	)		