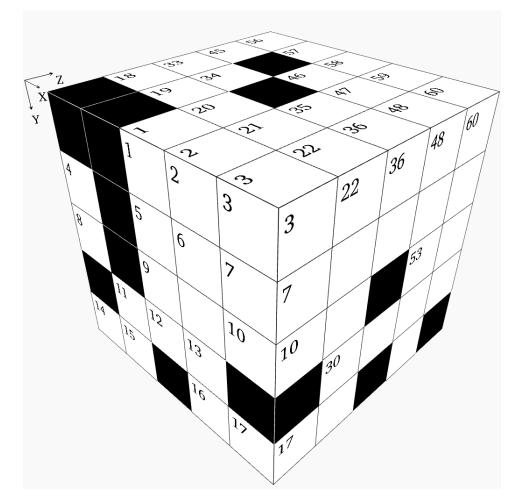


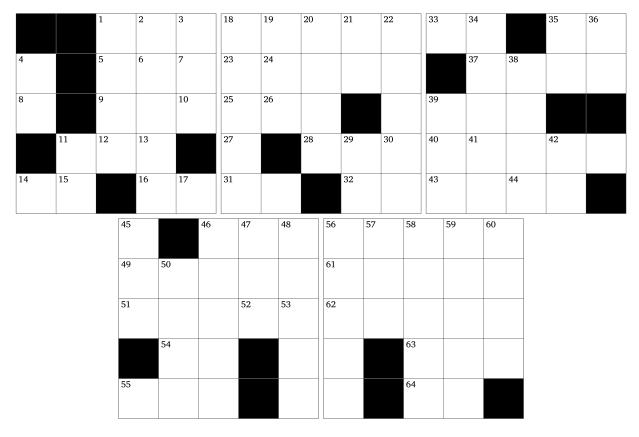
# Cube - Hard Puzzle #8



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 X63 minus Y29
- **5** Four times X54
- 9 Seven times a prime number
- 11 Y36 plus Z44
- 14 X61 minus Z14
- 16 Z53 plus Y35
- **18** A prime number
- **23** Nine hundred seven more than X51
- **25** X11 minus X35
- **28** Thirteen times Z49
- **31** Half of Y56, then subtract Y2
- **32** X33 minus X16
- 33 X35 reversed
- **35** Y29 plus X31
- **37** Ten times a prime number
- **39** Fifty-nine times Z52
- **40** Fifty times a prime number **43** One thousand three hundred
- forty-seven more than Z26
- 46 Half of X5
- **49** Twice the result of Z2 plus X43
- **51** First two digits are the same as Z41
- 54 X35 plus Z19
- **55** Y22 divided by Y4
- **56** Four thousand nine hundred ninety-eight less than Y56
- 61 A prime number
- **62** Two thousand four hundred ninety-five more than Z24
- 63 Twice the result of X37 minus Y50
- 64 A prime number

# **Y** Direction

- 1 Mean of Y21 and Z24
- **2** Sixty-six times a prime number
- **3** Z30 minus half of X46
- 4 Mean of X64 and X16
- **11** Z13 minus Y19
- **18** Y3 plus Y48
- **19** Z13 minus X31 **20** Twice the result of Y1 plus Z10
- 20 1 whice the result of Y1 plus 210 21 X1 minus Y19
- **22** Fifty-nine times a square
- **29** X35 minus Y11
- **34** Twice the result of Z8 minus Y48
- **35** Y36 minus X64
- 36 Mean of X32 and Z44
- **38** A prime number
- **39** Y18 divided by Z53
- 42 Mean of X14 and Y35
- 45 X5 minus Y35
- 46 Y20 plus X62
- **47** Mean of X11 and Z16
- **48** A prime number
- **50** Seventy-five times X14
- **56** One thousand eight hundred ninety more than Y34
- **57** Twenty-one times Y29
- **58** Y38 plus half of X39
- **59** Thirteen times a prime number
- **60** Twenty times X1

### **Z** Direction

- 1 Mean of X64 and Z4
- 2 Ninety-six times a prime number
- **3** Forty-four times a prime number
- 4 X31 plus Z53
- 5 Ninety times a prime number
- 6 Z3 minus half of Y46
- **7** A prime number
- 8 A prime number
- **9** Forty times a prime number
- **10** X14 plus Z52
- **12** Two thousand four hundred eighty-three more than X18
- 13 Five times X33
- 14 Seventy-two times a prime number
- **15** Five times a prime number
- 16 Rearranged digits of X25
- 17 X63 minus X55
- **18** Three times a prime number
- 19 Z49 minus Z52
- 24 Three times a prime number
- **26** Nine times a prime number
- **27** Mean of Z10 and X16
- **30** Y3 plus X54
- **41** Mean of X33 and Y21
- 44 A square
- **46** Y57 divided by twenty-one
- **49** Mean of Z4 and Y35
- 52 Y45 minus Y57
- 53 Y35 minus Y29

# Solution:

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