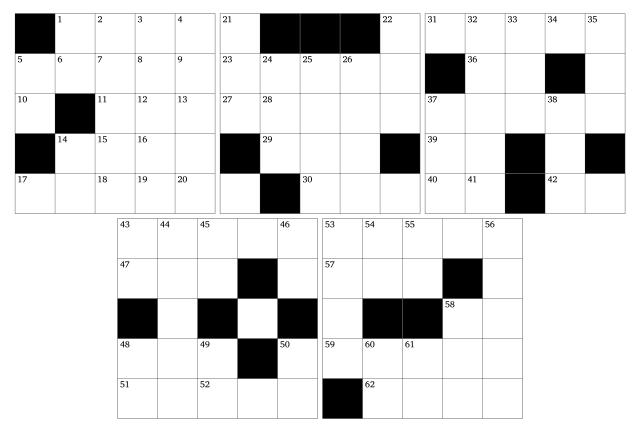


# Cube - Challenging Puzzle #5

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** Fifteen times a prime number
- **5** Six thousand nine hundred sixty-one less than Z20
- 11 Z5 plus Y22
- 14 Z9 minus half of Z19
- **17** Six times a prime number
- 23 A prime number
- **27** Four thousand three hundred ninety-five less than Z14
- **29** Twenty-two times X40
- 30 Twenty-one times X36
- 31 Twenty-seven times a prime number
- **36** Mean of Y49 and Z52
- **37** A prime number
- **39** Y44 divided by X48
- 40 X36 minus X58
- 42 Y54 minus Z50
- 43 Z32 times Z34
- 47 Consecutive digits in descending order 44 Eight thousand four hundred
- 48 X29 plus Y60
- 51 Last two digits are the same as Y50
- 53 Forty-six times a prime number
- 57 Mean of Z28 and X30
- 58 Two-fifths of Y55
- **59** First two digits are the same as Z18
- 62 Five times a prime number

# **Y** Direction

- 1 X58 plus Z52
- **2** Twenty-one times a prime number
- **3** Thirteen times a prime number
- 4 Z39 plus X31
- 5 X11 minus Y22
- 14 Y50 plus Y48
- **21** Twice a prime number
- **22** Y32 divided by Y60
- 24 Z20 minus Z14
- 25 X51 minus half of Z10
- 26 Y3 minus Z12
- 32 First two digits are the same as first two digits of Z13
- 33 X57 plus Y38
- **35** A square
- **37** Mean of Z32 and X30
- 38 Z33 minus Z39
- 43 Y45 minus X58
- forty-five less than Y56
- 45 Twice the result of Y2 minus Z6
- 46 Z10 divided by thirty-four
- 48 Mean of Y60 and X39
- 49 A square
- 50 X48 divided by fifty-nine
- 53 X5 divided by Y50
- 54 Y48 plus Z50
- 55 Y24 minus X42
- 56 Y5 times X57
- 58 Y46 plus Y48
- **60** X59 divided by Y33
- 61 Mean of Y50 and X39

### **Z** Direction

- 4 X17 minus X47
- 5 Y56 divided by X57
- Twelve thousand one hundred fifty-one 6 more than X59
- 7 Five times a prime number
- 8 Z28 minus Z5
- **9** A prime number
- **10** Thirty-four times Y1
- **11** Thirty-three times Z50
- **12** Forty-seven times a prime number
- 13 Mean of X47 and X40
- 14 Six thousand seven hundred five more than X59
- 15 X36 plus Y55
- 16 Z41 minus half of Z33
- 17 X1 plus Z21
- 18 Y56 divided by X57
- 19 Twelve thousand four hundred seventy-nine more than X37
- **20** Five thousand three hundred seventy-two less than Y2
- 21 Twice a prime number
- 28 A square
- 32 Y38 plus Y61
- **33** Mean of X30 and Z41
- 34 Mean of X58 and Z16
- **39** A prime number
- **41** Twice a prime number
- 47 Z5 minus Z50
- 49 Z8 plus X58
- 50 Z18 minus Z8
- **52** Z13 divided by Y61

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# Solution:

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