## TripleCross - Hard Puzzle \#7

This puzzle is like a crossword, but with numbers. Each digit occupies a hexagonal cell and can be a part of a "word" in the across, up, and down directions.

## Rules:

1. "Words" may not start with a zero.
2. "Words" in the 'across' direction read from left to right.
3. "Words" in the 'up' direction read along the upward diagonal to the right.
4. "Words" in the 'down' direction read along the downward diagonal to the right.
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.


## Across

1 Half of 61 up, then subtract 17 down
3 Mean of 29 up and 20 down
5 Mean of 35 up and 20 down
6 Twenty-one times a square
9 Mean of 26 down and 10 down
1050 across plus 64 across
1154 down plus half of 55 across
1226 down minus 9 across
14 Twice the result of 14 down minus 44 up
16 Eight times a prime number
19 Forty-nine times a prime number
23 Mean of 31 up and 3 across
2526 down minus 62 across
2739 up times 38 across
3023 across minus 18 down
3221 down plus 43 up
35 Five times a prime number
3827 across divided by 39 down
4054 down plus 12 across
42 A prime number
45 Two thousand four hundred eighty-seven less than 44 down
4854 across minus 60 across
5051 down plus 35 up
52 Twice 24 up
5438 across plus 12 across
5551 down minus 46 up
56 Fifty-five times a prime number
6010 across minus 54 down
6218 down minus 14 across
6446 up minus 48 across

## Up

9 Mean of 47 up and 12 across
1039 down minus 11 across
13 Four times a prime number
17 Ninety-nine times a prime number
18 Forty-four times a prime number
2028 up minus 39 down
22 Mean of 1 across and 57 down
23 Six times 49 up
2438 across minus 9 across
2628 up plus 7 down
2838 across minus 12 across
29 Mean of 10 up and 3 down
3144 up minus 10 down
332 down plus 5 across
34 A cube
354 down minus 10 down
3917 down plus 14 across
4230 across minus 1 across
43 Mean of 23 across and 52 across
4450 across plus 62 across
4639 down plus 54 down
47 A square
4925 across plus 4 down
52 Consecutive digits unordered
53 One thousand ten more than 9 down
59 Mean of 32 across and 22 up
617 down plus 28 up
6231 up times 10 up
63 Three thousand two hundred seventy-eight more than 19 across
65 Twice a prime number

## Down

233 up minus 21 down
37 down plus 42 up
4 Mean of 42 up and 57 down
5 Mean of 13 up and 53 down
720 down minus 35 down
8 Mean of 18 down and 7 down
9 Twice a prime number
10 Mean of 14 across and 58 down
1452 across plus 7 down
15 Forty-nine times a prime number
17 A square
18 Mean of 34 up and 17 down
2010 across minus 26 down
2159 up minus 39 up
22 Mean of 53 up and 52 across
2628 up plus 8 down
3110 down plus 51 down
3323 up times 34 up
3560 across minus 51 down
3619 across divided by 47 up
37 Mean of 46 up and 40 across
39 Mean of 24 up and 57 down
4162 up divided by 10 up
44 A prime number
46 A prime number
5138 across minus 42 up
5354 across divided by three
5434 up minus 58 down
5740 across minus 21 down
58 Twice the result of 5 across minus 35 down

## Solution:



