## TripleCross - Hard Puzzle \#33

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
140 up divided by 3 across
3 A square
5 A square
9 Mean of 25 down and 7 up
1025 across minus 45 up
1123 down plus 21 up
14 A square
18 Mean of 1 across and 5 up
2011 across divided by 9 down
22 Its digits total 43 up
2425 across minus 8 down
255 across divided by 14 across
27 Last two digits are the same as 1 across
2945 up plus 37 down
31 Mean of 6 up and 41 down
3239 across plus 5 up
3444 across times 24 across
3746 up plus 24 up
3937 across minus 25 across
4123 down minus half of 34 across
44 Mean of 46 up and 9 down
465 across divided by 44 up

## Up

5 Mean of 43 up and 33 up
610 down divided by 9 across
72 down plus 46 across
946 up plus half of 19 down
12 A prime number
1329 across minus 45 up
16 Half of 15 down, then subtract 12 up
20 Same as 14 down
21 Four times a prime number
2437 down minus 46 across
288 down plus half of 16 down
31 Mean of 41 down and 25 across
3338 down divided by 44 up
35 Nineteen thousand one hundred thirty-eight more than 27 across
3739 across plus 9 across
39 A cube
401 across times 14 across
42 A prime number
4324 across minus 44 across
4424 across minus 5 up
455 across divided by 42 down
467 up minus 36 down

## Down

1 Four times a prime number
231 up minus 18 across
3 A square
424 up plus 43 up
846 up minus 3 across
96 up minus 45 up
10 Last two digits are the same as 3
across
141 across minus 8 down
15 Six times a prime number
16 Ninety times a prime number
1739 up times 39 down
1925 across plus 43 up
23 Nine hundred twenty-eight less than 42 up
255 up plus 42 down
2635 up divided by forty-nine
3046 up minus 45 up
369 down reversed
37 Same as 13 up
38 Nine times 31 across
39 Same as 30 down
4144 up minus 8 down
42 Mean of 37 up and 44 across

## Solution:



