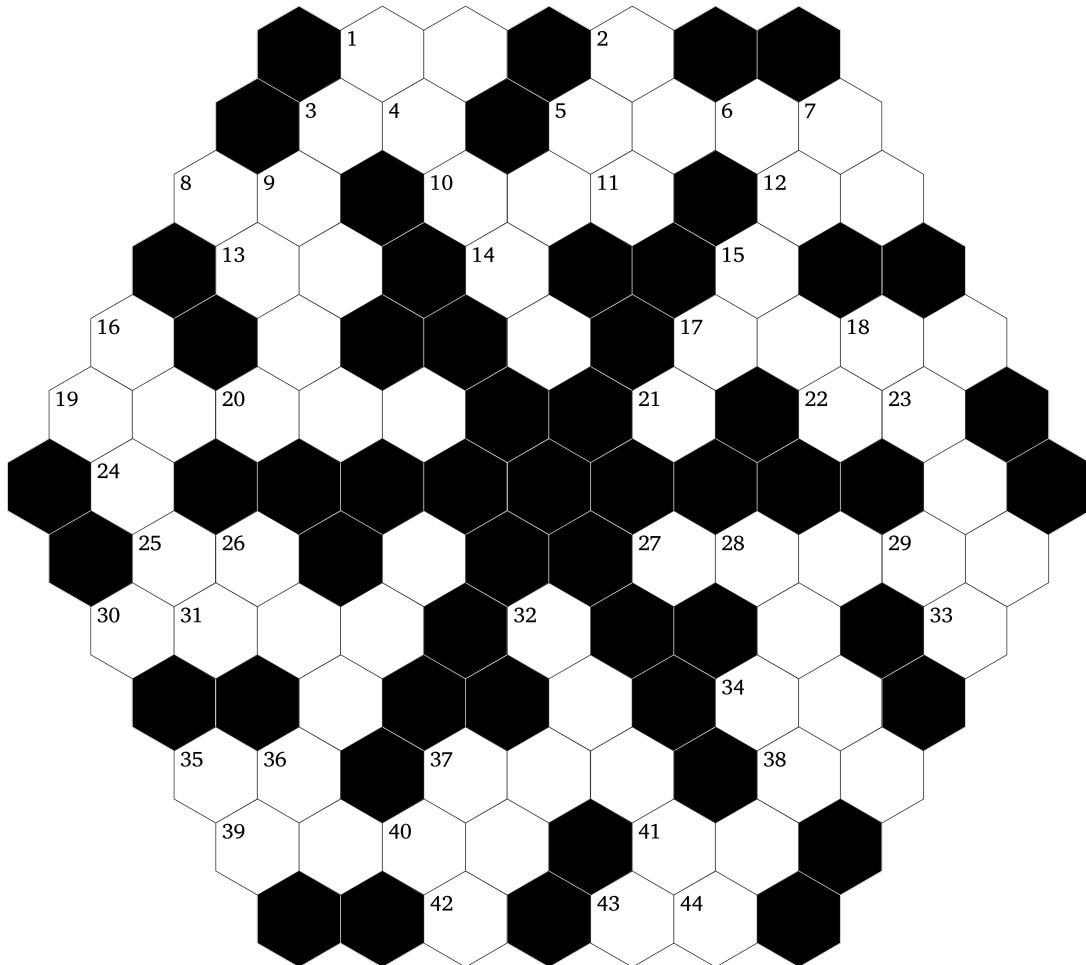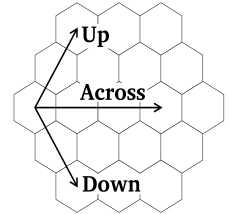# TripleCross - Hard Puzzle #4

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 34 down minus 12 across
3 33 up minus 40 down
5 Six times a prime number
8 Mean of 34 across and 1 across
10 43 up plus 26 down
12 Mean of 6 down and 11 up
13 Mean of 43 across and 11 up
17 Seventeen times a prime number
19 27 across plus 30 up
22 31 up plus 33 up
25 37 across divided by 34 across
27 19 across minus 31 up
30 13 up minus half of 8 across
34 43 up plus 3 across
35 16 down minus 4 up
37 43 across times 34 across
38 19 across minus 27 across
39 14 up minus 36 down
41 A prime number
43 21 up divided by 19 down

Up

4 Same as 29 up
11 Mean of 3 across and 40 down
13 Three times a prime number
14 A prime number
19 Mean of 24 up and 5 down
20 1 across plus 33 up
21 One thousand two hundred eighty-two more than 27 across
22 Mean of 22 across and 16 down
23 Mean of 38 across and 40 up
24 Same as 11 up
29 33 up minus 40 up
30 22 up minus 34 down
31 Mean of 23 up and 13 across
33 22 up minus 13 across
34 43 across times 34 across
39 Last two digits are the same as 33 up
40 1 across minus 43 up
42 37 across plus 8 down
43 A square
44 Mean of 40 down and 30 across

Down

1 40 down plus 19 across
2 25 across plus 36 down
5 22 across minus 35 down
6 Mean of 4 up and 1 across
7 4 up minus 36 down
8 42 up minus 34 up
9 22 up minus 33 up
15 Thirteen times 1 across
16 10 across minus 35 down
18 Mean of 17 across and 31 up
19 21 up divided by 25 across
26 29 down plus 33 up
28 Thirty-nine times a prime number
29 Mean of 43 across and 20 up
32 26 down times 10 across
34 35 down plus 36 down
35 34 across minus 9 down
36 12 across minus 40 down
37 16 down minus 43 up
40 Mean of 23 up and 25 across

Solution: