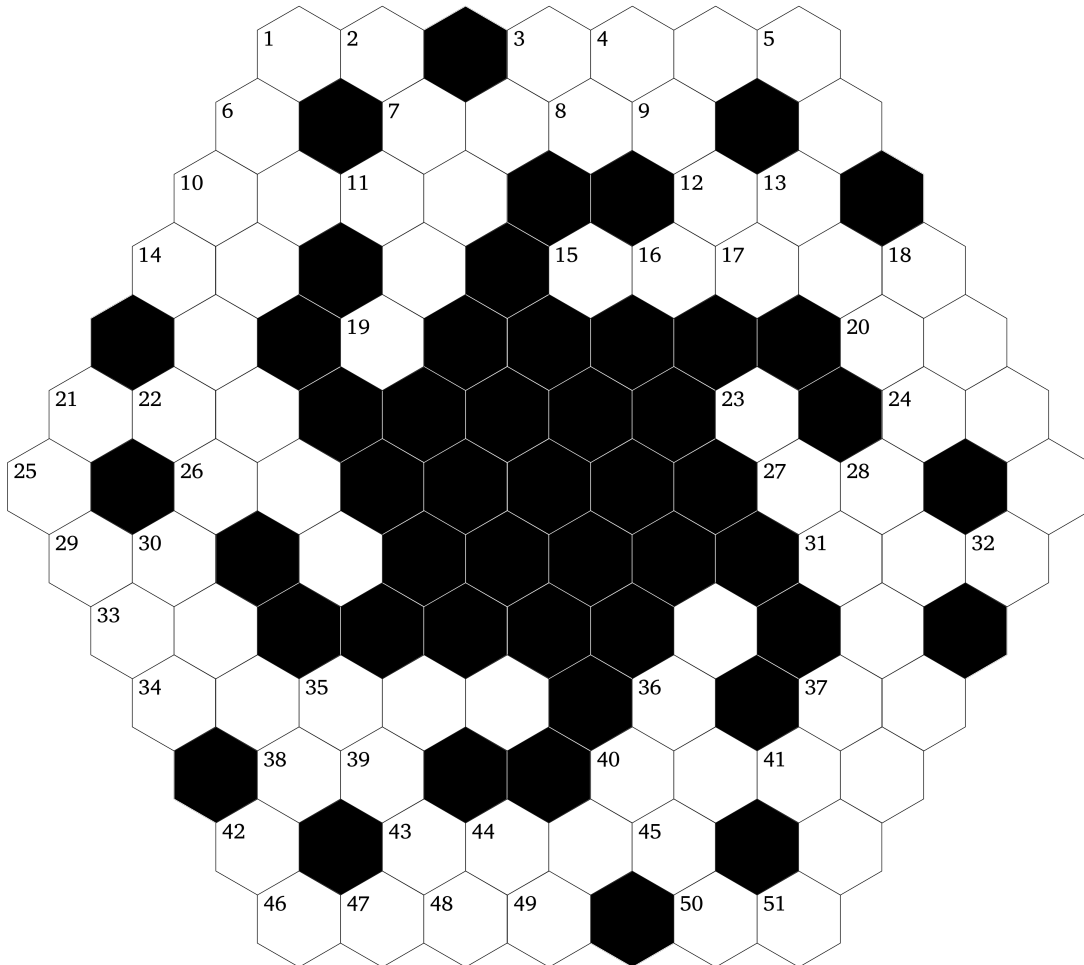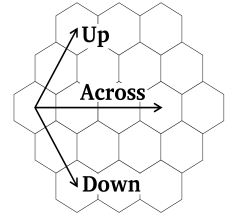# TripleCross - Hard Puzzle #50

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 50 across plus 28 down
3 30 down minus 8 up
7 Rearranged digits of 13 down
10 Thirty-six times a prime number
12 45 up plus 20 across
14 31 across minus 36 down
15 45 up times 40 down
20 45 up minus 3 down
21 Four times a prime number
24 41 down minus 42 down
26 31 across minus 38 across
27 3 down minus 44 down
29 A square
31 50 across plus 16 up
33 29 across plus 22 down
34 41 up plus half of 3 across
37 22 down minus 25 up
38 33 across minus 20 up
40 46 across plus half of 27 across
43 A prime number
46 40 across minus 28 down
50 15 across divided by 40 down

Up

8 Two-thirds of 14 across
9 44 down reversed
11 39 up minus 37 down
14 Eighty-one times 44 down
16 Mean of 3 down and 20 up
17 Eleven times 5 down
19 First two digits are the same as first two digits of 31 across
20 Mean of 14 across and 34 up
22 Sixty-four times a prime number
25 12 across minus 11 down
31 26 across times 44 down
32 47 up minus 5 down
33 Twice the result of 14 down minus 43 across
34 10 down minus 22 down
39 31 across minus 6 down
41 43 across plus 20 across
42 44 down times 37 across
45 31 across minus 6 down
47 36 down reversed
48 50 across minus 20 across
49 A prime number
51 Four times a prime number

Down

2 38 across times 20 across
3 Mean of 36 down and 5 down
4 Mean of 10 across and 1 across
5 A cube
6 Mean of 20 up and 3 down
10 Mean of 28 down and 36 down
11 20 across plus 38 across
13 Two thousand five hundred forty-two less than 34 across
14 First two digits are the same as 34 up
18 Twice a prime number
22 24 across minus 34 up
23 Ninety-four times a prime number
25 19 up minus 13 down
28 1 across minus 39 up
30 34 up plus 3 across
35 Half of 51 up, then subtract 24 across
36 47 up reversed
37 6 down minus 25 up
40 15 across divided by 39 up
41 31 across minus 29 across
42 Mean of 22 down and 32 up
44 10 down minus 42 down

Solution: