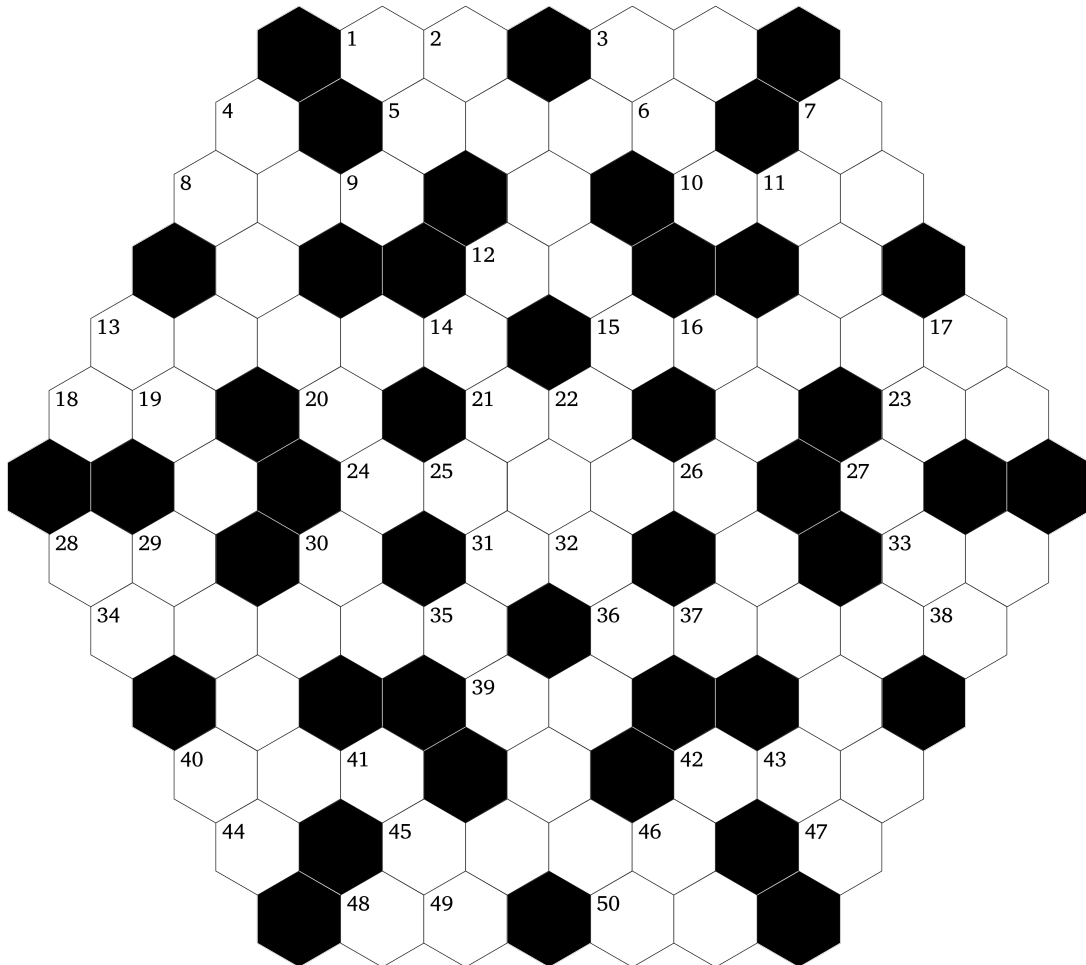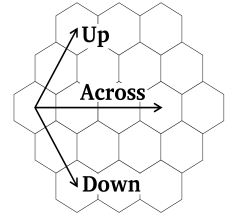# TripleCross - Hard Puzzle #48

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 46 down minus 6 up
3 20 up minus 6 up
5 Twice a prime number
8 27 up minus 18 across
10 13 down minus 31 across
12 Mean of 28 across and 30 down
13 36 across reversed
15 Twenty-one thousand one hundred forty-one more than 24 across
18 1 down plus 21 across
21 16 down minus 12 across
23 Twice the result of 13 down minus 50 up
24 Thirty-two times a prime number
28 Mean of 17 down and 18 across
31 48 across minus 28 across
33 47 up plus 38 up
34 Last two digits are the same as 20 up
36 Seventy-eight times 34 up
39 Mean of 33 across and 17 down
40 Mean of 8 across and 28 across
42 39 across plus 21 across
45 15 across divided by 40 down
48 Mean of 4 down and 18 across
50 Mean of 28 down and 6 up

Up

6 A cube
8 23 across minus 50 across
9 35 down divided by 28 down
11 Mean of 38 up and 16 down
14 Eight hundred two more than 36 across
18 A square
19 42 across times 3 across
20 26 up divided by 10 across
25 Mean of 47 up and 33 across
26 16 down times 10 across
27 Mean of 41 down and 11 up
32 48 across plus half of 31 across
34 1 down plus 27 down
35 Its digits total 6 up
37 11 up minus 8 up
38 33 across minus 12 across
40 Mean of 14 up and 18 across
43 Seventy-three times 44 up
44 32 up minus 46 down
47 Mean of 46 down and 50 across
48 47 up plus 6 up
49 20 up times 29 down
50 Eleven times a prime number

Down

1 28 down minus 30 down
2 45 across plus 24 across
3 14 up minus 14 down
4 40 across minus 21 across
7 46 down minus 50 across
8 First two digits are the same as first two digits of 43 up
11 Three times a prime number
13 Eight times 28 across
14 Twice a prime number
16 21 across plus 47 up
17 33 across minus 21 across
22 1 down plus half of 38 up
25 7 down plus 28 across
26 Mean of 2 down and 25 down
27 Seven times 37 up
28 Mean of 47 up and 39 across
29 49 up divided by 16 down
30 8 up plus 7 down
35 Six thousand two hundred eighty-two more than 13 across
40 3 across minus 17 down
41 50 up plus 1 across
43 A square
46 18 across minus 40 down

Solution: