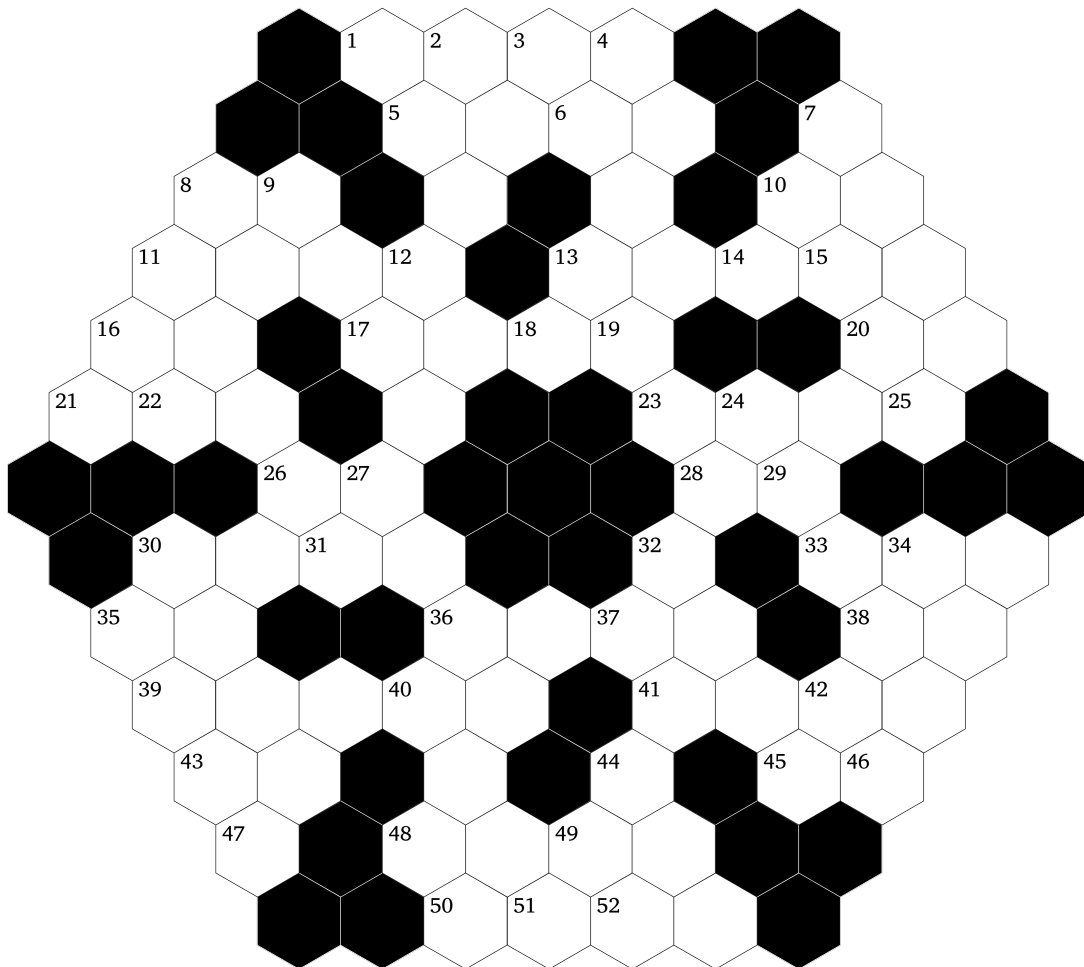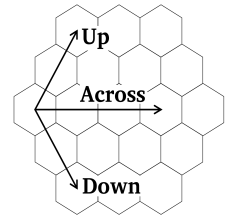# TripleCross - Hard Puzzle #8

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 Forty-four times a prime number
5 Twice a prime number
8 29 up divided by 37 down
10 21 across minus 52 up
11 One thousand eight hundred one more than 27 down
13 Twenty-seven times a prime number
16 45 across plus 48 down
17 A prime number
20 6 up minus 43 across
21 28 across plus 40 up
23 One thousand six hundred twenty-three more than 48 up
26 48 up divided by 21 across
28 3 down minus 9 down
30 Same as 37 up
33 21 across plus 40 up
35 Two-fifths of 8 down
36 One thousand nine hundred seventeen less than 39 up
38 16 across minus 42 down
39 Fifty-six times a prime number
41 Mean of 30 across and 8 down
43 5 up minus 42 down
45 6 up minus 52 up
48 Fifty-eight times a prime number
50 Twice the result of 46 up minus 35 up

Up

5 12 down plus 37 down
6 5 up minus 37 down
14 47 up minus 15 up
15 4 down minus 38 across
17 Thirty-three times a prime number
18 Twice the result of 1 across minus 44 down
19 28 across plus 43 up
21 Mean of 21 across and 45 up
22 Twenty-one times a prime number
25 A square
29 Twenty-one times a prime number
31 Four times a prime number
35 5 up minus 48 down
37 Three times a prime number
39 Four times a prime number
40 21 across minus 25 up
43 19 up minus 25 up
45 Fifty-seven times a prime number
46 Seven times a prime number
47 Fourteen times 4 down
48 Forty-five times a prime number
50 Mean of 12 down and 35 across
51 A prime number
52 16 across minus 15 up

Down

1 43 across plus half of 47 up
2 Half of 23 across, then subtract 35 down
3 9 down plus 25 up
4 Mean of 42 down and 49 down
7 A prime number
8 45 across plus 15 up
9 10 down plus 15 up
10 Last two digits are the same as 4 down
11 First two digits are the same as first two digits of 23 across
12 20 across plus 43 across
13 Eight hundred eighteen less than 1 across
16 Mean of 8 across and 5 up
24 Twice the result of 13 across plus 17 across
27 Sixty-two times 16 down
30 Mean of 35 across and 1 across
32 Half of 10 down, then subtract 20 across
34 Mean of 16 across and 10 across
35 Same as 45 up
37 48 down minus 52 up
40 11 across minus 30 down
42 Mean of 8 across and 2 down
44 5 up plus 26 across
48 Mean of 49 down and 12 down
49 Twice the result of 48 across minus 36 across

Solution: