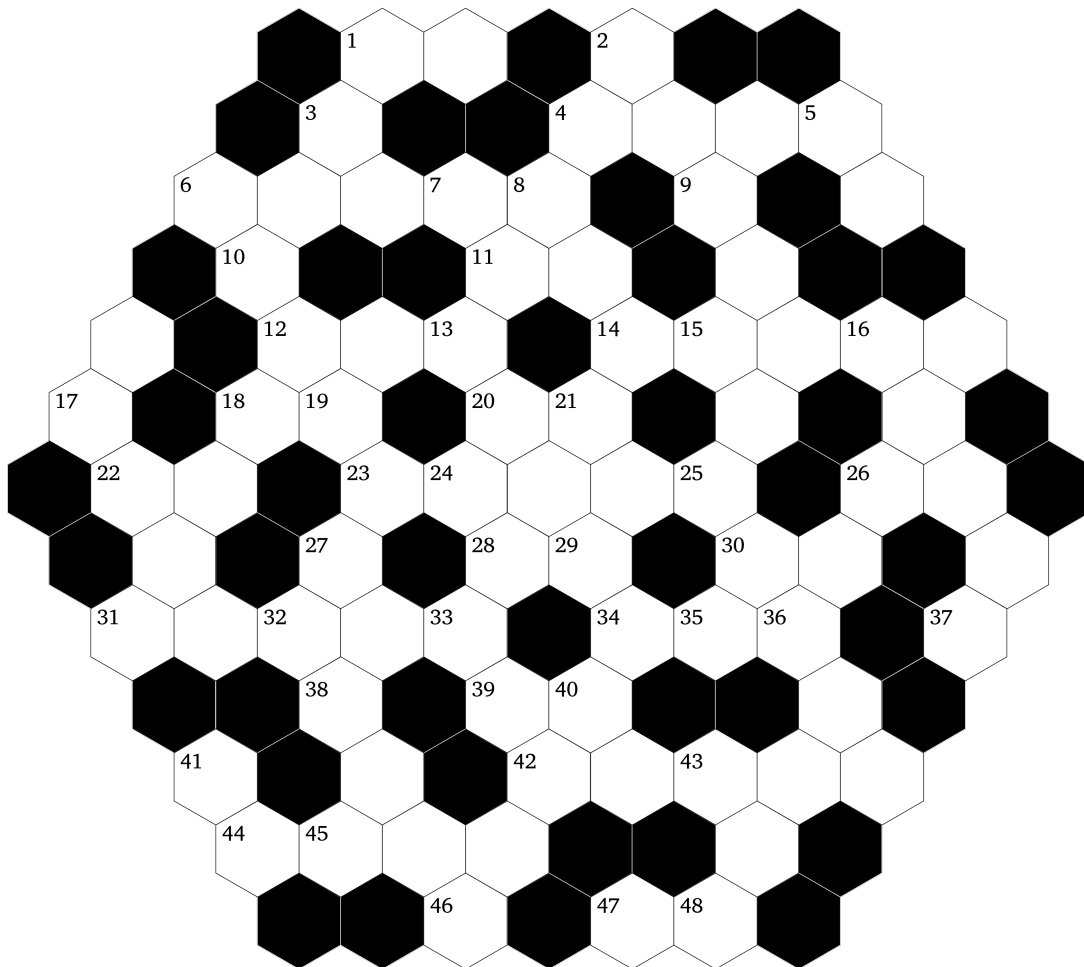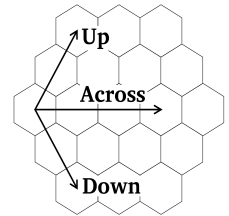Difficulty: ★★★★☆

TripleCross - Hard Puzzle #2

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 2 down divided by 17 down
4 41 down times 18 across
6 Sixteen times a prime number
11 40 down plus 38 up
12 8 down minus half of 37 up
14 Six times a square
18 Mean of 5 down and 11 across
20 21 down minus 40 down
22 7 down plus 24 up
23 Six thousand one hundred thirty-three more than 42 across
26 28 across minus 21 down
28 19 up plus 26 across
30 22 across plus 45 up
31 A prime number
34 A prime number
39 7 down minus 37 up
42 Twice the result of 25 down minus 32 down
44 Two hundred eight more than 4 across
47 27 down minus 3 down

Up

9 Mean of 11 across and 40 down
10 Three times a prime number
13 Thirty-three times a prime number
15 Twice the result of 35 up plus 3 down
17 29 up reversed
19 Mean of 11 across and 35 up
24 33 up divided by 44 across
25 Seventy-one times 1 across
29 18 across minus 26 across
31 Forty-two times a prime number
32 Seven times a prime number
33 Six hundred sixty-eight more than 25 down
35 15 down divided by four
36 39 across times 48 up
37 22 across minus 20 across
38 Mean of 18 across and 40 down
45 Mean of 28 across and 1 across
46 Twice the result of 6 across plus 25 up
48 36 up divided by 47 across

Down

2 47 across times 17 down
3 27 down minus 1 across
5 28 across plus 37 up
6 A prime number
7 A square
8 Four times a prime number
13 Fifty-eight times a prime number
15 30 across minus 47 across
16 17 up times 21 down
17 2 down divided by 39 across
21 18 across minus 26 across
24 43 down minus 15 up
25 First two digits are the same as 43 down
27 Mean of 22 across and 39 across
32 Twenty-seven times a prime number
33 Eight times a prime number
40 19 up minus 20 across
41 4 across divided by 28 across
43 Mean of 15 down and 41 down

Solution: