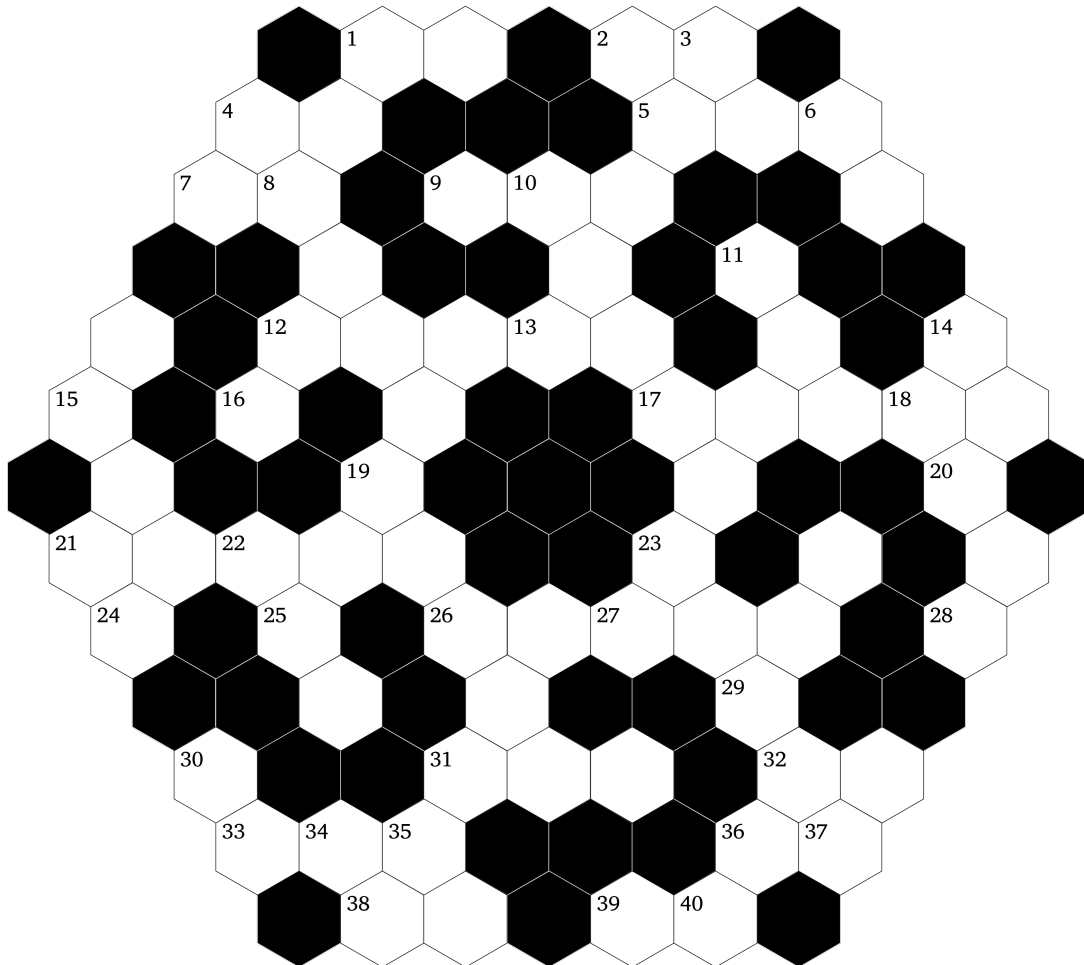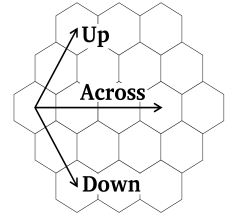# TripleCross - Hard Puzzle #36

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 5 across divided by 28 up
2 Mean of 28 up and 1 across
4 Mean of 36 across and 24 up
5 21 down plus 8 up
7 14 down plus 18 up
9 13 up divided by 33 across
12 Thirty-six times a prime number
17 26 across minus half of 7 up
21 Mean of 38 up and 21 up
26 Thirteen times a prime number
31 A prime number
32 16 up minus 24 up
33 Mean of 15 down and 37 up
36 15 up plus 6 down
38 24 up minus 21 down
39 11 down divided by 14 down

Up

7 28 up plus 35 down
8 31 across minus 30 down
13 Last two digits are the same as last two digits of 4 down
15 Same as 2 down
16 24 up plus 20 up
18 12 across divided by 40 up
20 Same as 32 across
21 24 up minus 2 across
24 7 up minus 3 down
25 Thirty-one times 29 up
27 Five times a prime number
28 Mean of 37 up and 1 across
29 Fifty-eight more than 15 down
37 30 down plus 3 down
38 Twenty-nine times a prime number
40 32 across plus 22 down

Down

2 32 across minus 2 across
3 A square
4 Twice a prime number
6 36 across minus 2 down
10 Thirty-five times a prime number
11 21 down times 14 down
14 Mean of 36 across and 38 across
15 18 down minus 18 up
18 22 down minus 35 down
19 Mean of 27 up and 3 down
21 Mean of 1 across and 34 down
22 Mean of 2 down and 5 across
23 A prime number
30 Mean of 21 up and 20 up
34 22 down divided by thirty-two
35 Mean of 6 down and 2 across

Solution: