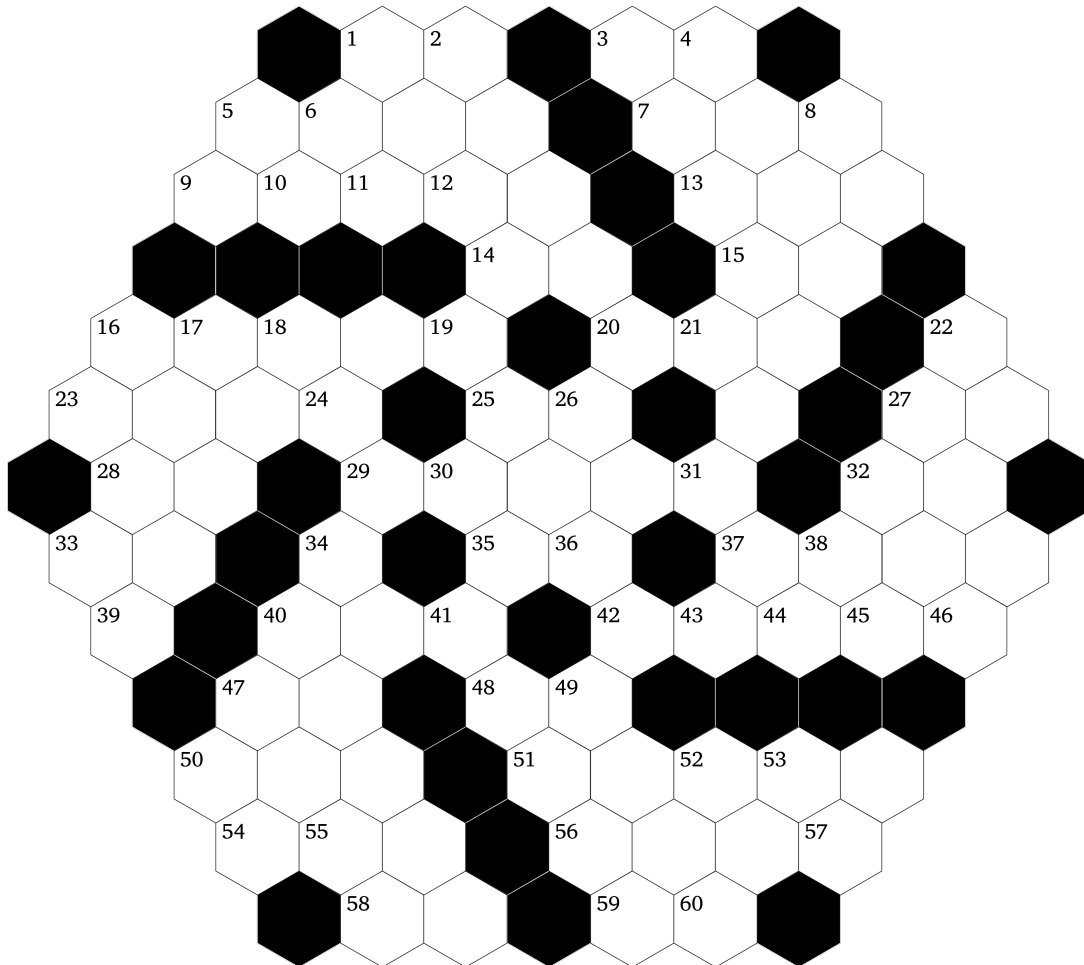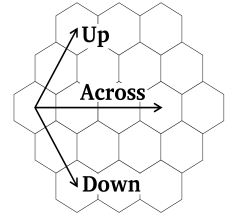# TripleCross - Hard Puzzle #25

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 3 across minus 47 across
3 40 across divided by 58 up
5 27 down times 1 across
7 24 up times 38 down
9 Seven thousand fifty-nine less than 3 down
13 30 down plus 23 up
14 34 down plus 3 across
15 23 up minus 35 across
16 37 across times 30 down
20 35 across times 26 down
23 Thirty-two times a prime number
25 Same as 48 across
27 46 up minus 47 across
28 25 across minus 30 down
29 Six times a prime number
32 29 across minus 31 up
33 Mean of 43 up and 14 across
35 49 down divided by 13 across
37 Forty-one times a prime number
40 55 up times 58 up
42 Six times a prime number
47 1 down divided by 25 across
48 54 across minus 18 down
50 Half of 32 down, then subtract 33 down
51 Seventy-one times a prime number
54 40 across minus 11 up
56 19 up plus 3 across
58 Sum of digits in 9 across
59 27 across minus 35 across

Up

7 Mean of 15 across and 59 across
9 Mean of 14 across and 36 up
10 23 down minus half of 27 across
11 20 across minus 35 across
12 26 down plus 35 across
13 Mean of 12 up and 35 across
19 56 across minus 55 up
21 Six times a prime number
23 51 up minus 25 across
24 7 across divided by 56 up
30 20 across minus 11 up
31 Nine times a prime number
33 Three times a prime number
36 Mean of 35 across and 59 across
39 Three hundred nineteen less than 44 up
41 All digits are the same
43 50 across minus 46 up
44 Twenty-six times a prime number
45 Mean of 40 across and 33 up
46 3 across plus 12 up
50 Twice a prime number
51 11 up plus 30 down
54 Three times a prime number
55 40 across divided by 56 up
56 Half of 22 down, then subtract 50 down
57 22 down plus 34 down
58 7 across divided by 24 up
59 46 up plus 20 across
60 54 across plus 52 down

Down

1 56 across minus 8 down
2 A prime number
3 Twenty times a prime number
4 Twice a prime number
5 21 down plus 7 up
6 Mean of 57 up and 52 down
8 35 across plus 50 down
16 54 across plus 50 across
17 51 up minus 34 down
18 54 across minus 21 down
19 42 across minus 13 across
21 47 across minus 59 across
22 Mean of 11 up and 35 across
23 10 up plus 36 up
26 59 across minus 1 across
27 Mean of 36 up and 60 up
30 46 up minus 5 down
31 Twice the result of 20 across plus 48 across
32 Twice a prime number
33 6 down minus 8 down
34 A cube
38 Same as 56 up
40 16 across minus 35 across
41 Sixteen times a prime number
47 Seventy-three times 9 up
49 30 up times 13 across
50 Mean of 58 up and 25 across
52 11 up minus 38 down
53 16 down divided by 26 down

Solution: