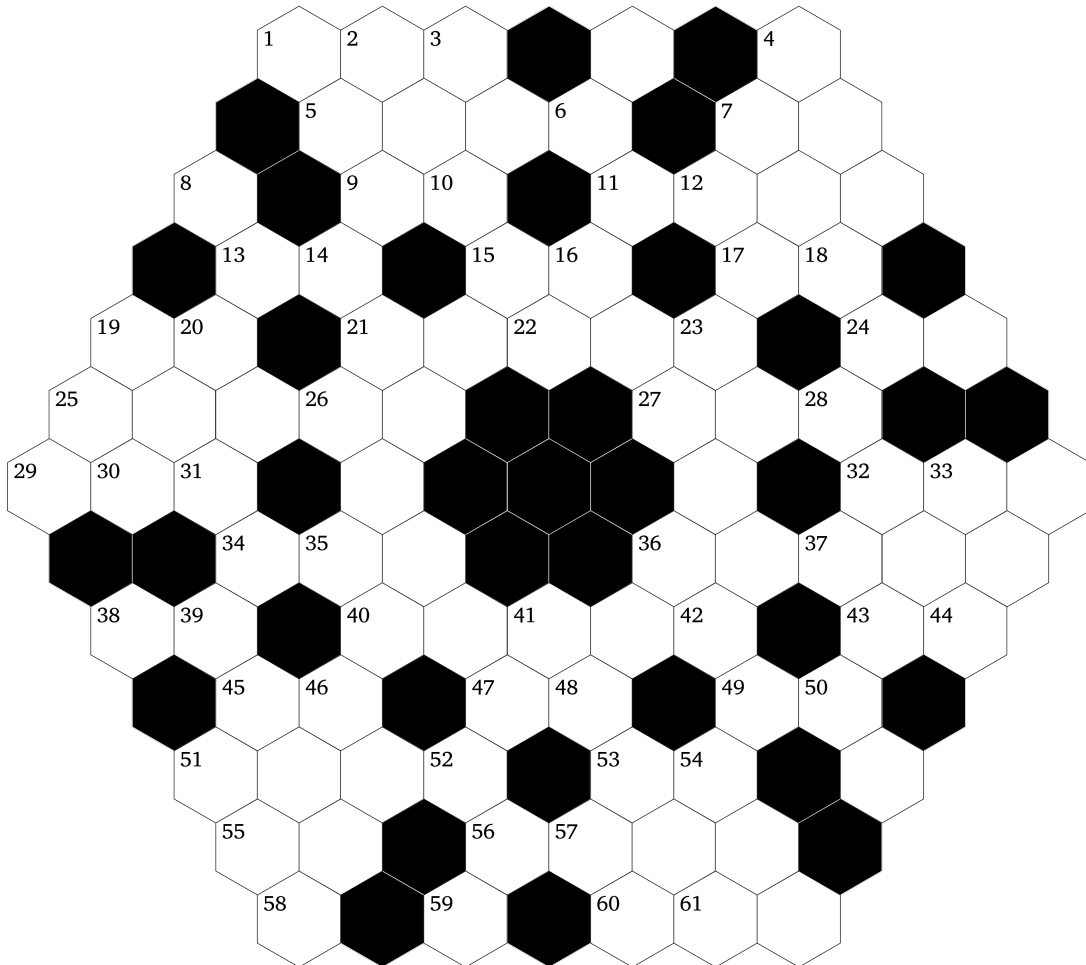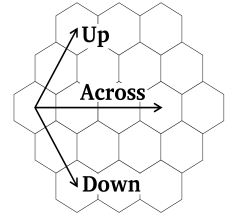# TripleCross - Hard Puzzle #29

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 Mean of 23 down and 54 down
5 One thousand three hundred fifty-nine more than 60 up
7 51 across divided by 34 across
9 23 down minus 19 across
11 A prime number
13 9 across plus 37 up
15 60 up divided by 1 across
17 Mean of 6 down and 57 up
19 Sum of digits in 7 down
21 Three hundred ninety less than 25 across
24 29 across minus 5 up
25 Six times a prime number
27 8 down plus 5 up
29 3 down plus 20 down
32 33 down times 55 across
34 59 up plus 60 across
36 First two digits are the same as 37 up
38 52 down minus 50 down
40 Its digits total 33 down
43 Twice the result of 29 across minus 25 down
45 Mean of 1 across and 15 across
47 17 across minus half of 59 up
49 31 up minus 8 down
51 38 across times 34 across
53 58 up minus 57 down
55 21 across divided by 5 across
56 24 across times 6 up
60 14 down minus 7 across

Up

5 8 down plus 37 down
6 Mean of 13 across and 57 down
10 Mean of 6 down and 57 up
12 Fifty-four times 19 across
14 Fifteen times a prime number
18 Mean of 5 up and 53 across
22 Mean of 29 across and 7 down
26 Mean of 42 up and 9 across
27 Six times a prime number
28 Mean of 15 across and 1 across
29 25 down plus 35 down
30 Thirty-seven times 61 up
31 Mean of 51 up and 18 up
35 Sixteen times a prime number
37 55 across plus 59 up
39 29 across minus 18 up
42 Half of 53 across, then subtract 37 up
44 A square
48 Fifty times a prime number
50 Three hundred ninety-eight more than 60 up
51 46 down plus 6 up
52 26 up times 39 up
55 Half of 36 across, then subtract 50 down
57 24 across minus 57 down
58 9 across plus 45 across
59 12 down minus 20 down
60 Eighty-seven times 61 up
61 Mean of 45 across and 24 across

Down

1 Mean of 38 across and 32 across
2 Three thousand eight hundred six less than 16 down
3 Mean of 18 up and 37 up
4 41 down minus 25 across
6 12 down minus 39 up
7 Five times a prime number
8 29 across minus 43 across
12 25 down plus 55 across
14 60 across plus 38 across
16 A prime number
19 Four times a prime number
20 43 across minus 9 across
23 28 up minus 24 across
25 29 up minus 51 up
26 Twice a prime number
28 Last two digits are the same as last two digits of 21 across
33 Mean of 39 up and 38 across
35 Mean of 19 across and 29 up
36 Nine times 8 down
37 45 across minus 13 across
39 Forty-one times a square
41 Four thousand five hundred seven less than 35 up
46 31 up minus 37 up
50 Four times 19 across
51 52 up plus 18 up
52 29 up minus 51 up
54 Ten times a square
57 Mean of 10 up and 38 across

Solution: