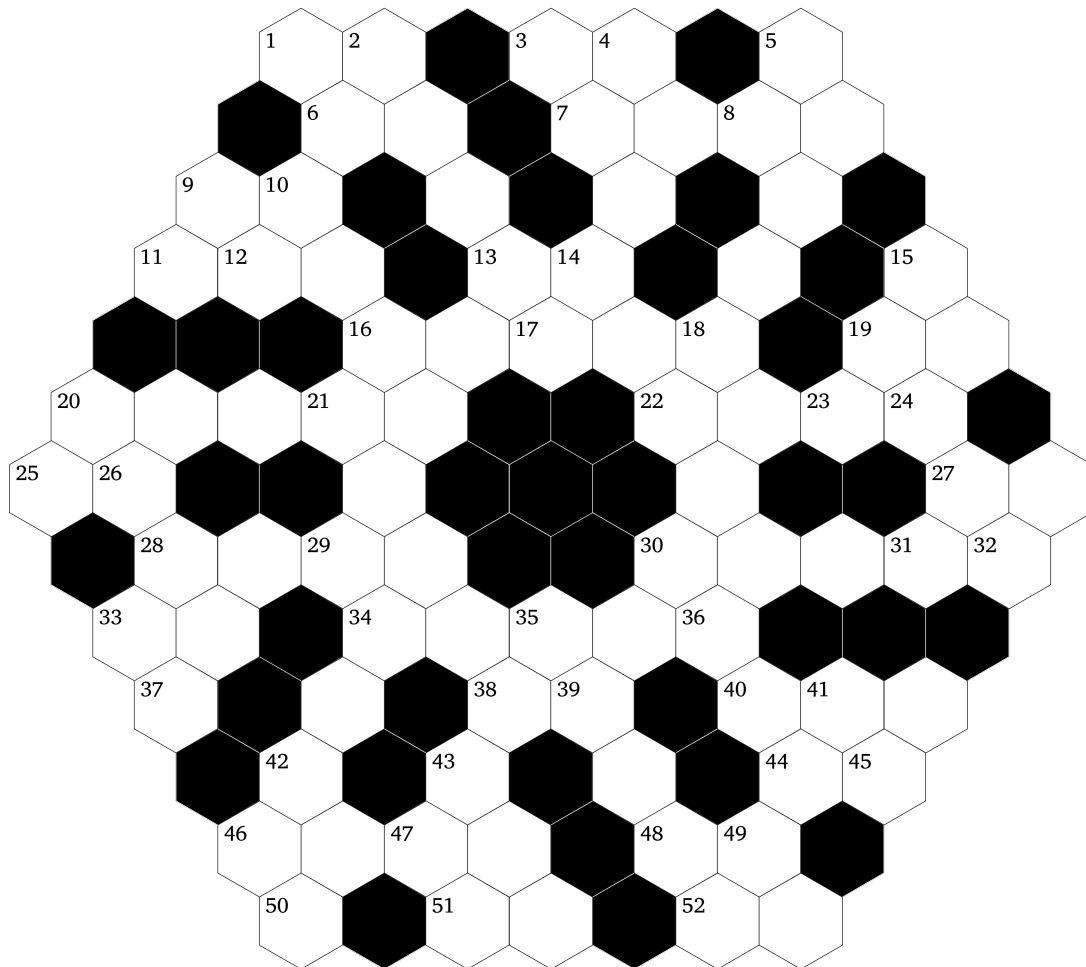
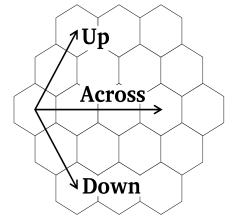


TripleCross - Challenging Puzzle #59

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** 9 across minus 31 up
3 Sum of digits in 46 up
6 Mean of 45 up and 9 across
7 Twenty-seven times a prime number
9 Twice the result of 39 up minus 20 across
11 Mean of 13 across and 43 down
13 52 across minus 5 down
16 A palindrome
19 Mean of 25 across and 6 across
20 39 up minus 1 across
22 Twice a prime number
25 46 down minus 27 across
27 Sum of digits in 2 down
28 Six times a prime number
30 Sixty-two times a prime number
33 A square
34 4 down plus 16 across
38 11 across minus half of 43 down
40 Twice a prime number
44 33 across plus 46 down
46 Twice the result of 30 down plus 6 across
48 13 across plus 11 up
51 Twice 25 across
52 33 up plus 21 up

Up

- 7** A square
8 Twice the result of 17 up minus 10 down
11 Mean of 19 across and 15 down
12 Eighty-seven times a prime number
17 52 across plus 19 down
21 50 up minus 45 up
22 Eight thousand five hundred twenty-four less than 34 across
23 1 across times 15 down
24 Four times 1 across
25 46 down minus 31 up
26 Mean of 51 up and 40 across
29 First two digits are the same as 29 down
31 Mean of 32 up and 27 across
32 Twice the result of 49 down minus 7 up
33 Mean of 6 across and 5 down
36 33 up plus half of 33 down
37 35 down divided by 47 down
39 31 up plus 20 across
45 50 up minus 11 up
46 Four times a prime number
47 Sixteen times a prime number
50 1 across plus 6 across
51 Mean of 33 up and 49 down
52 Twice the result of 22 across plus 18 down

Down

- 1** 23 up divided by 9 across
2 Fourteen times a prime number
3 37 up minus 15 down
4 Mean of 13 across and 29 down
5 8 down minus 3 across
8 40 across minus 26 up
9 32 up plus 1 across
10 17 up minus 33 down
14 Its digits total 31 up
15 Mean of 8 up and 19 across
18 Two-thirds of 42 down
19 Seventy-four times 51 across
20 Fifty-nine times 24 up
21 22 up plus 42 down
29 Twice the result of 25 across plus 13 across
30 Thirty-seven times 5 down
33 Mean of 25 up and 50 up
35 Five thousand one hundred forty-four more than 2 down
41 25 across plus 9 across
42 Mean of 32 up and 29 down
43 Fifty-two times 25 up
46 Mean of 9 across and 13 across
47 8 down plus 32 up
49 41 down minus 51 up

Solution:

