

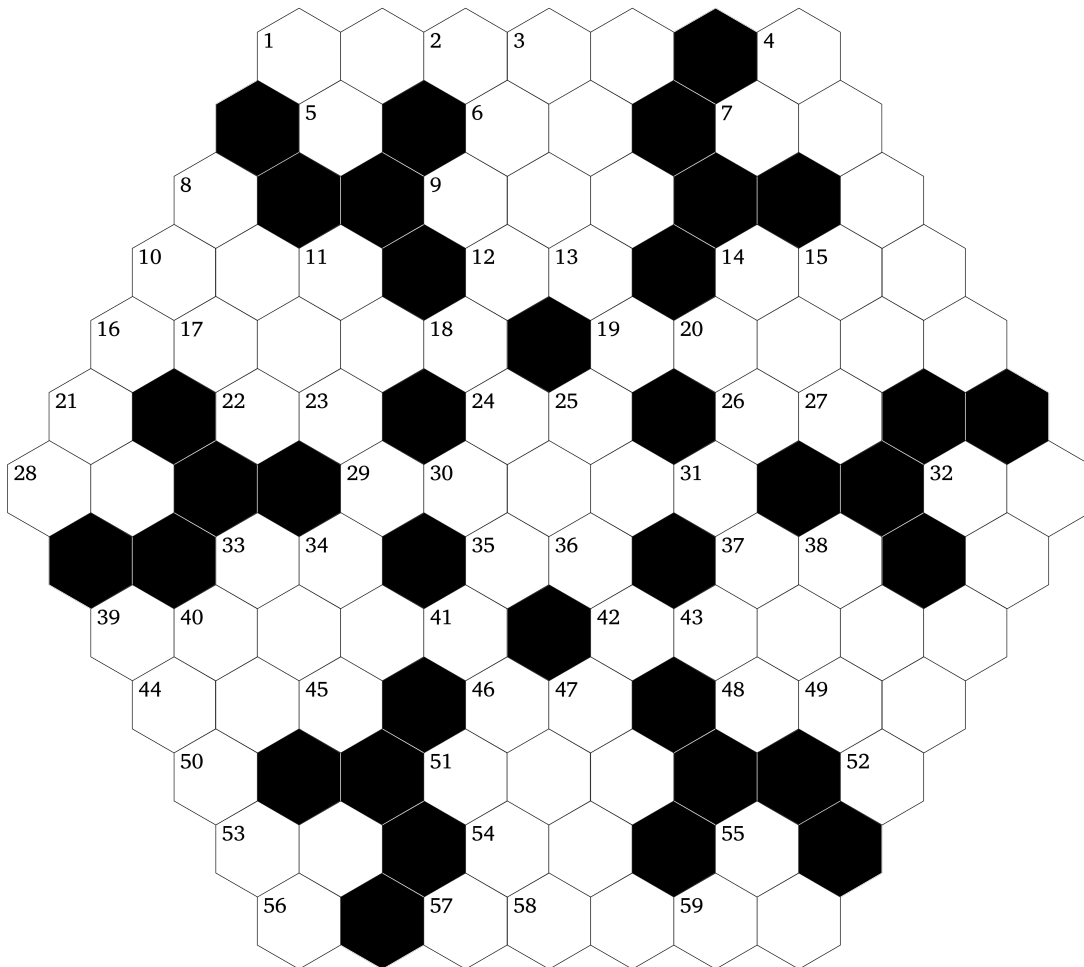
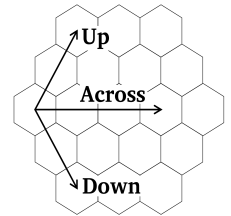
Difficulty: ★★★★★

TripleCross - Hard Puzzle #31

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 Six thousand six hundred eleven more than 31 down
6 14 down minus 22 across
7 14 down minus 26 across
9 44 up minus 48 across
10 41 up divided by 9 down
12 Mean of 21 down and 20 up
14 14 down plus 17 up
16 18 down minus 25 down
19 Eight thousand three hundred forty-five more than 29 across
22 53 across minus 30 up
24 13 up minus 28 across
26 43 down plus 32 down
28 Mean of 7 up and 32 down
29 Ten thousand seventy-eight less than 39 across
32 13 up minus 7 up
33 48 up divided by three
35 54 across minus 47 down
37 14 across minus 13 up
39 Mean of 19 across and 39 down
42 Twice the result of 52 up plus 47 down
44 Twice the result of 10 down plus 37 across
46 14 across minus 28 across
48 A square
51 7 across plus 9 across
53 20 down plus 59 up
54 22 up minus 40 down
57 Four thousand nine hundred thirty-two more than 4 down

Up

- 5 14 across minus half of 46 across
7 Mean of 28 across and 24 across
9 8 down divided by 54 across
13 23 up plus 12 across
17 26 across minus 24 across
18 16 across minus half of 55 down
20 14 down minus 32 down
22 6 across plus 20 up
23 43 up plus 59 up
27 51 across plus 35 across
28 Twenty-three times a prime number
30 Mean of 40 down and 26 across
31 Six thousand two hundred one less than 1 across
36 5 up minus 35 across
41 Seven thousand five hundred eighty-four less than 52 up
43 A square
44 27 up plus 23 up
45 A square
48 Half of 33 down, then subtract 48 across
49 A square
50 Three times a prime number
51 48 across minus 15 down
52 Twice a prime number
56 7 up plus 45 up
57 Half of 31 up, then subtract 1 down
58 Nine times 11 down
59 51 down minus 9 across

Down

- 1 43 up plus 47 down
2 Fifty-two times a prime number
3 10 down minus 40 down
4 Thirty times a prime number
8 Eight thousand three hundred twelve more than 1 across
9 Mean of 53 across and 54 across
10 49 up plus 10 across
11 48 across minus 37 across
14 55 down plus 25 down
15 40 down minus 28 across
18 Twice a prime number
20 Two-fifths of 48 up
21 Sum of digits in 57 across
25 36 up plus 7 across
30 Half of 9 across, then subtract 3 down
31 First two digits are the same as 34 down
32 9 down minus 35 across
33 Thirteen times 47 down
34 25 down minus 32 across
38 33 down minus 59 up
39 First three digits are the same as 51 across
40 5 up minus 21 down
41 Twice a prime number
43 33 down minus 38 down
47 48 up minus 48 across
51 35 across times 49 up
55 30 up minus 20 up

Solution:

