

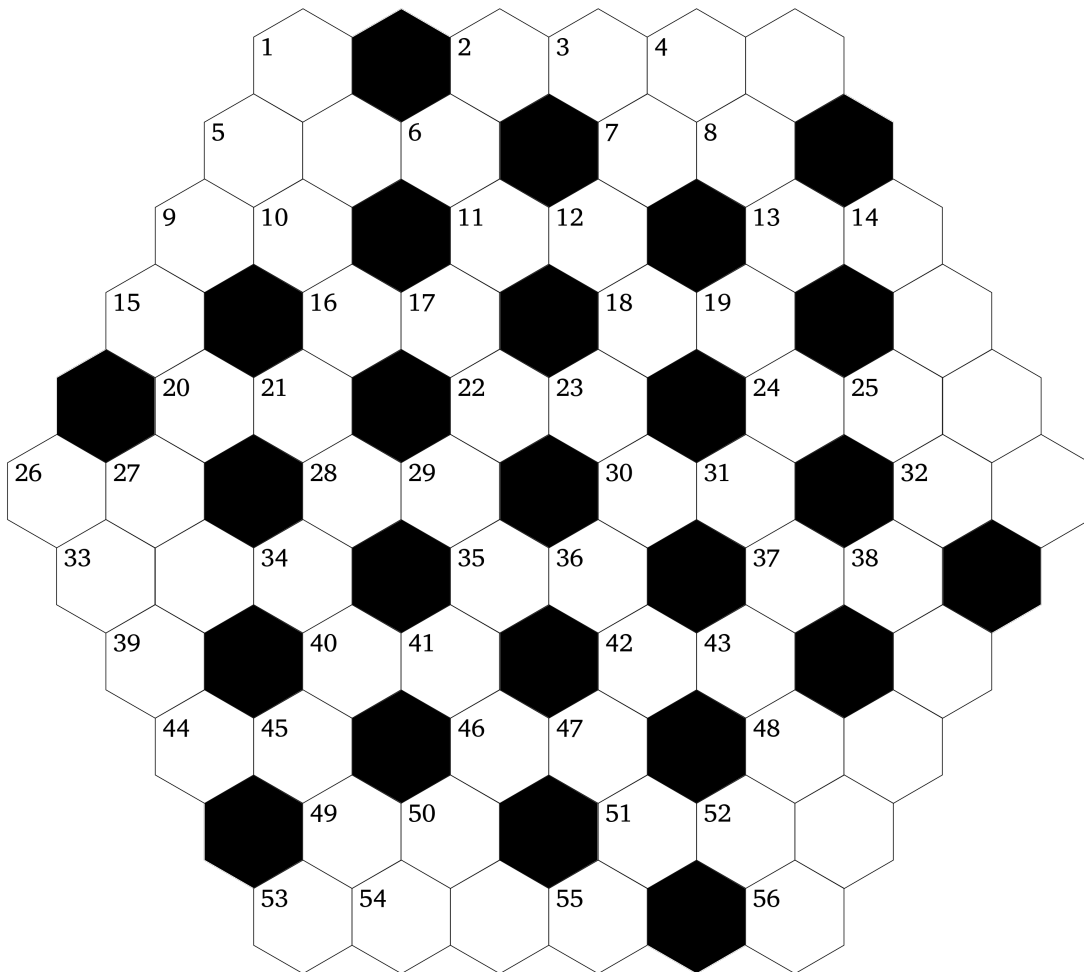
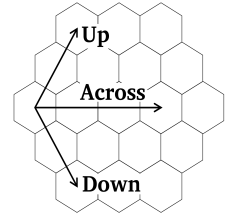
Difficulty: ★★★★★

TripleCross - Hard Puzzle #15

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

2 Ten times a square
5 Nineteen times 21 down
7 6 down minus 41 up
9 39 up minus 8 up
11 Twice the result of 19 up plus 15 down
13 19 down minus 41 down
16 39 up minus 17 up
18 15 down plus 28 across
20 1 down minus 21 up
22 23 down minus 30 across
24 15 down times 23 down
26 34 down plus half of 45 up
28 29 up minus 41 up
30 A square
32 25 up minus 21 up
33 29 up plus 18 across
35 34 up minus 16 across
37 Mean of 35 across and 20 across
40 Mean of 49 across and 8 up
42 47 down plus 41 down
44 12 down minus 34 up
46 36 up minus half of 47 up
48 19 up minus 55 up
49 47 down minus 19 down
51 55 up times 13 across
53 Three times a prime number

Up

6 A prime number
8 37 across minus half of 6 down
10 47 up plus 17 up
12 Eight times a prime number
15 24 across plus 33 across
17 Mean of 48 across and 25 down
19 Same as 40 across
21 29 up minus 10 up
23 29 up minus 41 up
25 49 across plus 9 across
29 Mean of 18 across and 29 down
31 16 across plus 34 up
33 56 up divided by 23 down
34 28 across minus 45 up
36 Mean of 27 down and 11 across
38 54 up minus 29 up
39 Twice the result of 10 up minus 42 across
41 46 across minus 55 up
43 12 down minus 36 down
45 47 down minus 19 down
47 23 down minus 13 across
52 A square
53 Mean of 3 down and 7 across
54 45 down reversed
55 51 across divided by 21 down
56 Rearranged digits of 14 down

Down

1 Mean of 47 down and 43 up
3 50 down plus 36 up
4 25 up plus 5 down
5 Three times a prime number
6 A square
12 Mean of 35 across and 33 up
14 20 across times 45 down
15 43 up minus 8 up
17 11 across minus 35 across
19 10 up minus 36 up
21 23 down minus 47 up
23 25 down plus 20 across
25 42 across minus 19 up
26 A prime number
27 Mean of 42 across and 15 down
29 34 up plus 6 up
31 28 across minus half of 44 across
34 42 across minus 55 up
36 23 down minus 13 across
38 48 across plus 23 up
41 45 up minus 48 across
43 A prime number
45 Mean of 4 down and 22 across
47 33 up minus 3 down
50 47 down minus 49 across
52 40 across plus 11 across

Solution:

