

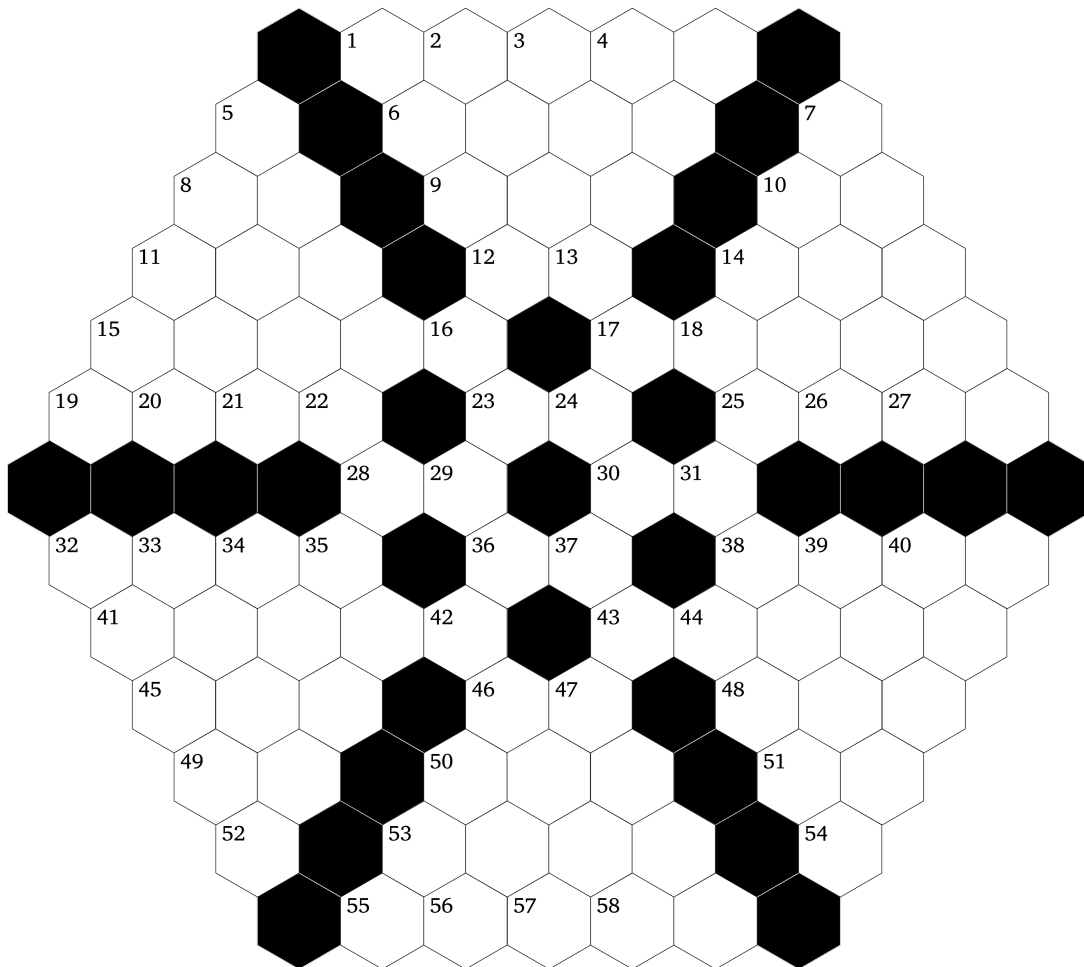
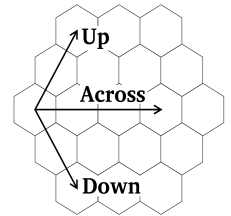
Difficulty: ★★★★★

# TripleCross - Hard Puzzle #43

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 Five thousand nine hundred eighty-one more than 32 down  
6 Mean of 46 across and 18 up  
8 15 down plus 24 up  
9 34 down minus 10 across  
10 24 up plus 22 up  
11 A square  
12 38 across divided by 14 down  
14 50 across minus 48 up  
15 A cube  
17 Twenty-one times a prime number  
19 Mean of 44 down and 9 across  
23 49 across plus 8 across  
25 Seventeen times a prime number  
28 5 down divided by 57 up  
30 Mean of 26 up and 44 up  
32 A prime number  
36 11 down minus 29 down  
38 10 down minus 28 across  
41 Seventeen thousand forty-six less than 16 up  
43 Forty-one times a prime number  
45 36 across plus 3 down  
46 35 down minus 58 up  
48 Thirteen times 49 across  
49 Mean of 53 down and 4 down  
50 Mean of 19 across and 40 down  
51 27 up minus 6 up  
53 Four times a prime number  
55 31 down plus 44 up

**Up**

- 6 8 across plus 46 across  
9 57 up plus 15 down  
13 Ten times a prime number  
16 Sixteen thousand two hundred ninety-three less than 31 down  
18 Three times a prime number  
19 Mean of 2 down and 23 across  
20 Nine times a prime number  
21 14 across minus 35 down  
22 37 up plus 51 across  
24 11 down minus 16 down  
26 A square  
27 Mean of 11 down and 10 across  
29 Mean of 41 up and 11 down  
31 Sixty-nine times a prime number  
37 14 across divided by 4 down  
41 48 across minus 14 down  
42 Mean of 18 down and 35 down  
44 9 up divided by 28 across  
45 37 up times 15 down  
48 21 up minus 37 down  
49 First three digits are the same as 14 down  
51 Five times a prime number  
52 Two thousand nine hundred thirty-two less than 7 down  
54 Half of 55 across, then subtract 8 down  
55 A prime number  
56 Eight thousand eight hundred seventy-six less than 31 up  
57 Mean of 29 up and 39 down  
58 Mean of 24 down and 44 up

**Down**

- 1 6 across minus 50 across  
2 Thirteen times a prime number  
3 40 down plus 11 across  
4 35 down minus 15 down  
5 30 across plus 52 up  
7 Two thousand six hundred six more than 55 up  
8 First two digits are the same as first two digits of 48 up  
10 33 down plus 48 up  
11 Mean of 11 across and 42 up  
14 38 across divided by 8 across  
15 45 across divided by sixteen  
16 8 across plus 51 across  
18 1 across minus 49 up  
24 23 across minus 6 up  
29 Twice the result of 53 across minus 32 across  
31 52 up times 46 across  
32 Mean of 43 across and 53 down  
33 Four hundred seventy-six more than 5 down  
34 45 across plus 48 across  
35 Mean of 46 across and 40 down  
37 Mean of 37 up and 46 across  
39 42 up times 37 down  
40 7 down divided by 3 down  
42 Twenty-two times a prime number  
44 A prime number  
47 Four times a prime number  
50 10 across plus 34 down  
53 41 up minus 49 across

**Solution:**

