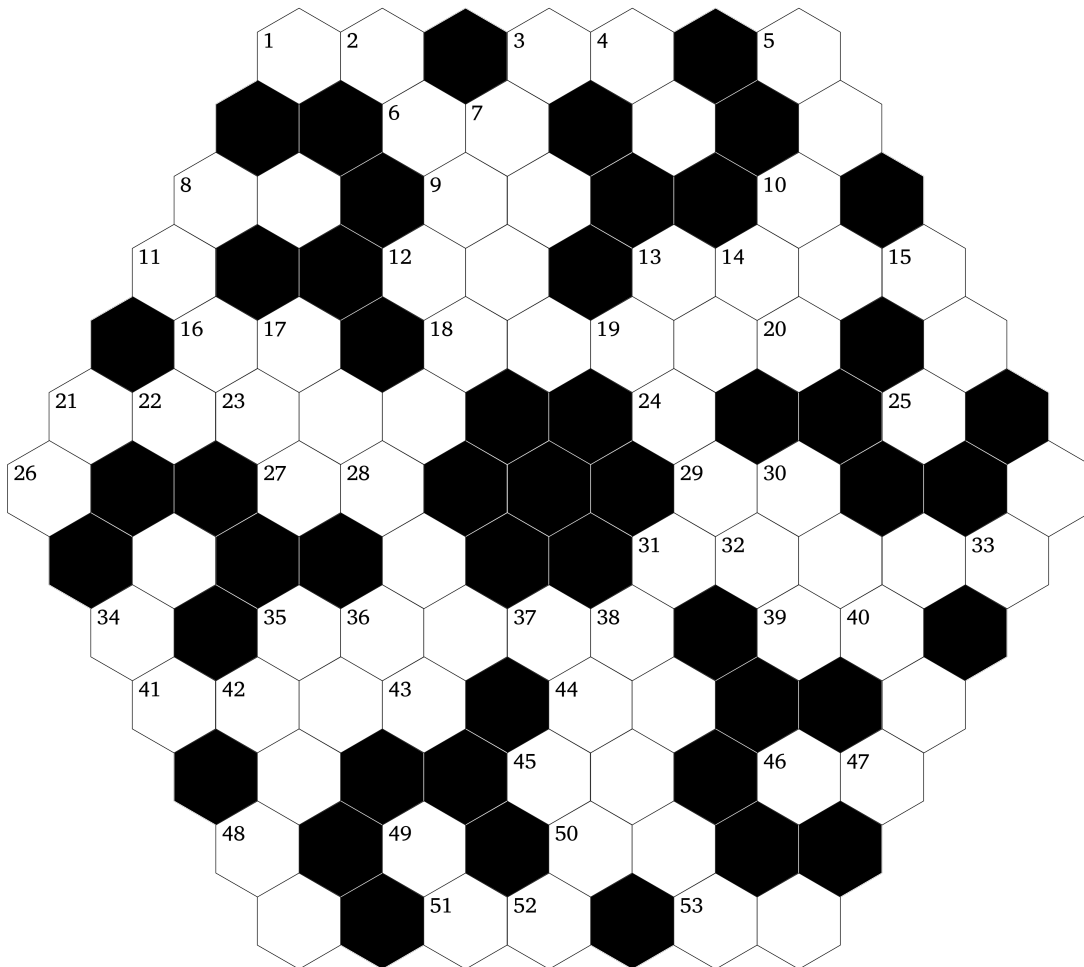
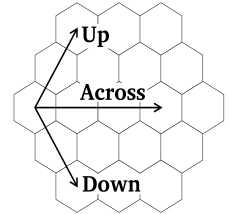


# TripleCross - Challenging Puzzle #54

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** 44 across minus 16 across  
**3** 11 up minus 16 across  
**6** 19 up minus 12 across  
**8** 1 across minus 7 down  
**9** 3 across plus 26 up  
**12** 23 up minus 35 down  
**13** 30 down plus 39 up  
**16** 34 up minus 15 down  
**18** Three thousand five hundred eight more than 21 across  
**21** 22 up plus half of 37 down  
**27** 25 up minus 34 down  
**29** 53 across plus half of 35 down  
**31** Last two digits are the same as 38 down  
**35** Last two digits are the same as 27 across  
**39** 20 up plus 14 down  
**41** 45 up minus half of 48 up  
**44** Twice the result of 6 across plus 27 across  
**45** Twice the result of 43 up minus 10 down  
**46** Mean of 27 across and 34 up  
**50** A square  
**51** 42 up minus 46 across  
**53** 35 down minus 16 across

**Up**

- 11** Twice the result of 50 across minus 51 across  
**12** Twenty-five times a prime number  
**19** 15 down plus half of 16 across  
**20** 51 across minus 16 across  
**22** 27 up plus 35 down  
**23** 7 down plus 14 down  
**24** Thirty-nine times a prime number  
**25** 16 across plus 43 up  
**26** 35 down minus 15 down  
**27** 34 down minus 26 up  
**28** A prime number  
**32** A square  
**33** Mean of 49 down and 25 up  
**34** 26 up plus 12 down  
**39** 3 across plus 12 across  
**40** 48 down reversed  
**42** Twice the result of 2 down minus 17 down  
**43** 36 down minus 6 across  
**45** Three times a prime number  
**47** 25 up minus 12 down  
**48** Eight hundred thirty-seven more than 28 up  
**52** Twelve times a prime number

**Down**

- 2** One thousand nine hundred ninety-six more than 45 up  
**4** 11 up minus 27 across  
**5** 47 up minus half of 3 across  
**7** 27 across minus 16 across  
**10** 23 up minus 27 across  
**11** Eleven times a prime number  
**12** Twice 32 up  
**13** 18 across minus half of 19 down  
**14** 12 down plus 15 down  
**15** Half of 48 down  
**17** Five thousand thirteen less than 19 down  
**19** Rearranged digits of 31 across  
**30** 13 across minus 33 up  
**34** 44 across minus 53 across  
**35** Mean of 46 across and 43 up  
**36** Mean of 39 across and 33 up  
**37** Two thousand ninety-nine less than 2 down  
**38** Twice 15 down  
**42** 4 down plus 46 across  
**45** A square  
**48** 16 across plus 50 across  
**49** 35 down plus 7 down

Solution:

