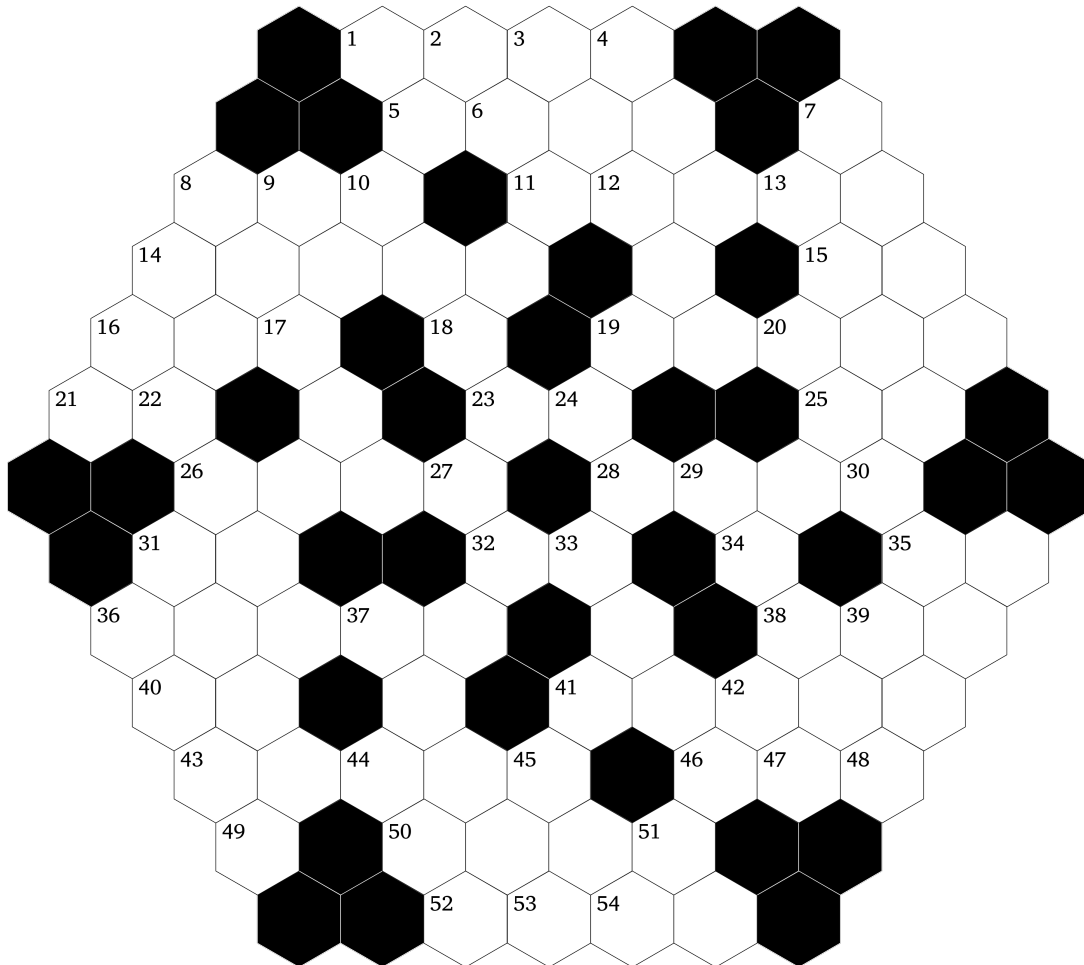


# TripleCross - Hard Puzzle #5

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** Its digits total 1 down  
**5** Two thousand one hundred seventeen less than 22 up  
**8** 38 across minus 23 across  
**11** Thirty-three times a prime number  
**14** 20 down minus 24 down  
**15** 53 up plus 23 across  
**16** Twenty-eight times a prime number  
**19** Three times a prime number  
**21** 7 down minus half of 44 up  
**23** 25 across minus 24 down  
**25** 27 up plus 31 across  
**26** 36 across divided by 42 down  
**28** Mean of 10 down and 4 down  
**31** A square  
**32** Mean of 1 down and 42 down  
**35** 53 up minus 1 down  
**36** 21 across times 26 across  
**38** Twice a prime number  
**40** 6 up plus 21 across  
**41** A prime number  
**43** A prime number  
**46** Twice a prime number  
**50** 31 down minus 33 down  
**52** Thirty times a prime number

**Up**

- 6** 40 across minus 42 down  
**12** Same as 39 down  
**13** 9 down minus 42 down  
**17** 19 across plus 52 across  
**18** Six thousand nine hundred four more than 29 down  
**20** A prime number  
**21** Mean of 36 up and 33 down  
**22** Forty-six times a prime number  
**24** Nine times a prime number  
**27** 23 across minus 42 down  
**30** 28 across minus 38 across  
**33** 23 across minus 27 down  
**34** Fourteen thousand three hundred nine less than 11 across  
**36** Seventeen times 1 down  
**40** A prime number  
**43** A prime number  
**44** Twenty-six times a prime number  
**47** Seventy-nine times a prime number  
**48** Three times a prime number  
**49** Mean of 23 across and 6 up  
**50** Same as 32 across  
**52** Eight thousand four less than 17 up  
**53** 1 down plus 39 down  
**54** Three times a prime number

**Down**

- 1** 9 down reversed  
**2** 50 up times 13 up  
**3** Fifty-eight times a prime number  
**4** A prime number  
**7** A prime number  
**8** Six thousand five hundred seventy-one less than 37 down  
**9** Twice the result of 20 down minus 14 across  
**10** Five times a prime number  
**13** Twice the result of 48 up minus 46 across  
**14** 27 down plus 53 up  
**16** Mean of 3 down and 16 across  
**20** Twice a prime number  
**24** 31 across minus 21 across  
**27** 36 down divided by 45 down  
**29** 36 up times 49 up  
**31** 52 up minus 36 across  
**33** 1 across minus 46 across  
**36** Seventy-five less than 31 down  
**37** Twelve times a prime number  
**39** Mean of 12 up and 35 across  
**42** 31 across minus 24 down  
**44** Twenty-five times a prime number  
**45** 6 up plus 25 across  
**51** Mean of 40 across and 23 across

Solution:

