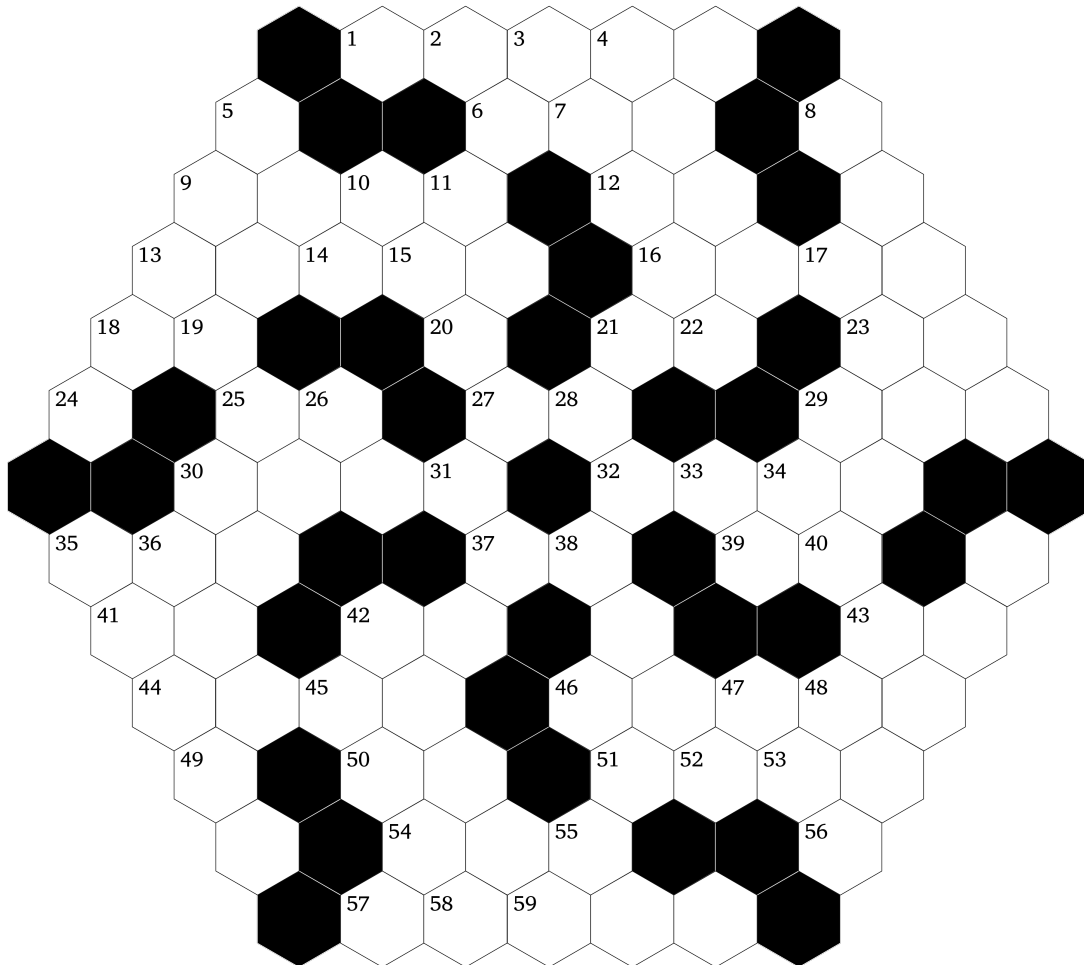
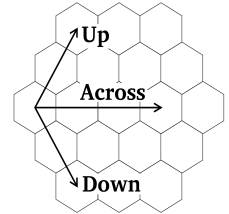


# TripleCross - Hard Puzzle #9

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 Three times a prime number  
 6 Mean of 47 down and 17 up  
 9 36 down plus 30 down  
 12 26 down minus 43 across  
 13 52 up times 10 down  
 16 27 across times 17 up  
 18 A square  
 21 30 down minus 12 across  
 23 A square  
 25 2 down minus 41 across  
 27 16 across divided by 2 down  
 29 8 down divided by 25 across  
 30 A prime number  
 32 Twenty-two times a prime number  
 35 49 up times 31 down  
 37 55 down plus 2 down  
 39 35 across minus 19 up  
 41 Mean of 23 across and 20 up  
 42 41 up divided by 48 down  
 43 42 down divided by 28 up  
 44 Twice the result of 38 down plus 12 across  
 46 Sixty-three times a prime number  
 50 45 up plus 33 down  
 51 32 across plus 41 across  
 54 A prime number  
 57 3 down plus 57 up

**Up**

- 7 Mean of 33 down and 12 across  
 12 Half of 44 up, then subtract 24 up  
 14 48 down reversed  
 15 Seven hundred eighty-eight more than 32 across  
 17 27 across minus 23 across  
 19 50 across plus half of 7 up  
 20 47 down minus 50 across  
 22 46 up minus 12 across  
 24 Eleven times a square  
 28 Consecutive digits unordered  
 31 Mean of 25 across and 43 across  
 38 A square  
 39 Seven thousand two hundred fifty-eight more than 46 across  
 40 Eight times a prime number  
 41 Nine hundred thirty-two less than 15 up  
 44 Seventeen thousand two hundred seventy-five less than 46 across  
 45 50 across minus 31 up  
 46 19 up minus 14 up  
 49 Same as 9 down  
 50 Eight hundred ninety-three more than 59 up  
 52 37 across minus 2 down  
 53 Rearranged digits of 47 down  
 56 17 down times 46 down  
 57 Mean of 17 down and 47 down  
 58 Mean of 31 down and 12 across  
 59 Thirty-five times a prime number

**Down**

- 2 27 across minus 23 across  
 3 Four thousand nine hundred three more than 1 across  
 4 Seventeen times a prime number  
 5 45 up plus 25 across  
 8 Fifteen times a square  
 9 26 down minus 14 up  
 10 13 across divided by 9 down  
 11 52 up plus 27 across  
 13 Sixteen times a prime number  
 17 56 up divided by 46 up  
 26 Mean of 55 down and 18 across  
 28 35 across minus 6 across  
 29 27 across minus 22 up  
 30 35 across minus 19 up  
 31 35 across divided by 55 down  
 33 Mean of 43 across and 25 across  
 34 A prime number  
 35 A prime number  
 36 9 across minus 39 across  
 38 A prime number  
 42 Eight thousand three hundred fifty-one more than 39 up  
 45 Twenty-two times a square  
 46 22 up plus 12 across  
 47 18 across plus 42 across  
 48 45 up minus 58 up  
 55 13 across divided by 10 down

Solution:

