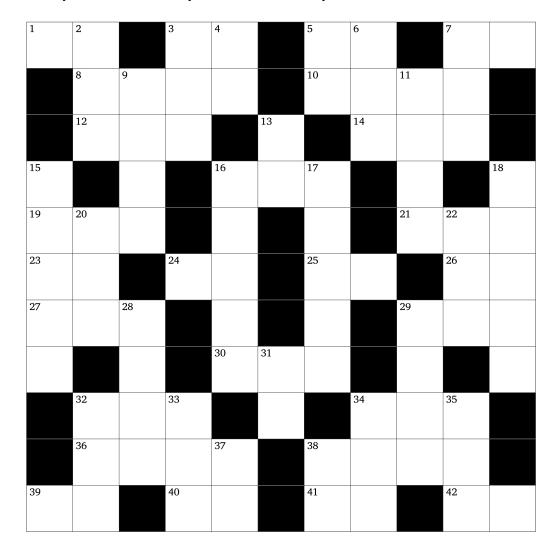# CrossFigure - Hard Puzzle #34

This puzzle is like a crossword, but with numbers. Each digit occupies a square and can be a part of a "word" in the across and down directions.

Rules:

1. "Words" may not start with a zero.
2. "Words" read from left to right and top to bottom.
3. There is one unique solution which satisfies all the clues given below.
4. Some "words" may not have clues. They will be determined by the "words" which intersect them.

Across

1 7 across minus 31 down
3 27 across minus 22 down
5 19 across minus 7 across
7 12 across minus 34 across
8 Four times a prime number
10 Twice the result of 9 down minus 11 down
12 Mean of 27 across and 42 across
14 Ten times 5 down
16 Twice a prime number
19 29 across minus 12 across
21 38 across minus 25 across
23 Mean of 31 down and 32 down
24 A square
25 40 across plus 26 across
26 38 down plus 24 across
27 Twice 34 across
29 Twice the result of 34 across minus 37 down
30 33 down minus 3 across
32 Mean of 34 down and 40 across
34 Mean of 3 across and 22 down
36 A prime number
38 Nine times a prime number
39 Mean of 1 across and 26 across
40 41 across minus 39 across
41 3 across minus 31 down
42 5 down minus 13 down

Down

2 3 down plus 39 across
3 14 across minus 1 across
4 20 down minus 5 down
5 27 across minus half of 16 across
6 Mean of 3 down and 5 across
7 Twice the result of 32 down plus 39 across
9 Five hundred ninety-two more than 8 across
11 Last two digits are the same as 13 down
13 A prime number
15 Half of 16 down, then subtract 8 across
16 Eight times a prime number
17 Fifteen times a prime number
18 Mean of 17 down and 29 down
20 28 down divided by 7 across
22 7 down minus 37 down
28 13 down plus 36 across
29 Twenty-three times a prime number
31 Half of 42 across, then subtract 1 across
32 5 down plus 41 across
33 13 down times 31 down
34 19 across plus 25 across
35 Mean of 2 down and 14 across
37 31 down plus 38 down
38 Mean of 1 across and 31 down

Solution:

1	8	■	8	9	■	8	4	■	3	4
■	8	9	5	6	■	7	6	5	8	■
■	2	5	2	■	1	■	8	7	0	■
2	■	4	■	6	9	8	■	1	■	4
1	1	8	■	1	■	0	■	9	3	2
8	8	■	2	5	■	8	5	■	4	2
4	3	6	■	9	■	0	■	3	7	0
0	■	2	■	2	1	5	■	6	■	8
■	1	2	3	■	6	■	2	1	8	■
■	6	2	0	3	■	1	0	1	7	■
3	0	■	4	3	■	7	3	■	6	8