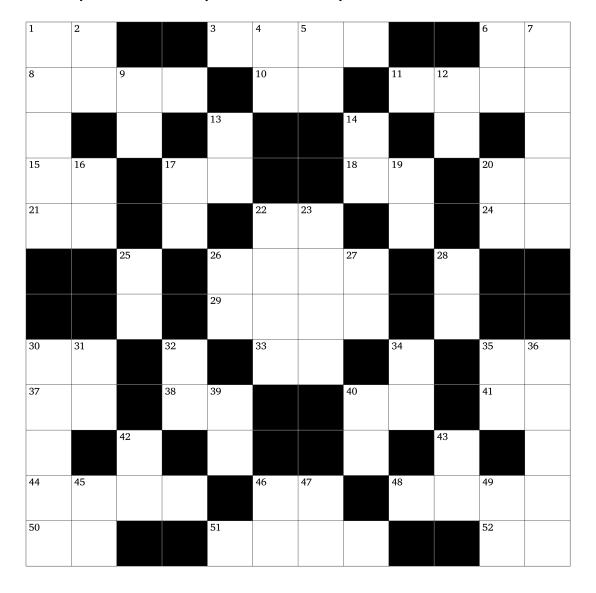# CrossFigure - Hard Puzzle #40

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 Mean of 18 across and 33 across
3 Mean of 22 down and 21 across
6 A square
8 1 across times 40 across
10 31 down plus 32 down
11 Twice the result of 26 across plus 35 across
15 1 across minus 28 down
17 Mean of 32 down and 31 down
18 40 down plus 47 down
20 33 across minus 40 down
21 41 across minus 46 down
22 4 down plus 6 across
24 3 across divided by sixty
26 A prime number
29 Forty times a prime number
30 9 down plus 19 down
33 Seven times 45 down
35 17 across plus 46 across
37 35 down minus 40 down
38 A square
40 13 down minus 47 down
41 2 down plus 17 down
44 2 down times 46 down
46 27 down minus 26 down
48 17 down times 20 across
50 23 down divided by 43 down
51 30 across times 42 down
52 Mean of 15 across and 34 down

Down

1 A prime number
2 5 down minus 17 down
4 24 across minus 40 down
5 Mean of 18 across and 4 down
6 17 across minus 39 down
7 Thirty-four times a prime number
9 Sum of digits in 36 down
12 35 across minus 31 down
13 Mean of 12 down and 35 down
14 Sum of digits in 30 down
16 Mean of 25 down and 37 across
17 Mean of 40 down and 33 across
19 Mean of 15 across and 6 down
20 Mean of 41 across and 31 down
22 Seven times a prime number
23 43 down times 27 down
25 37 across minus 39 down
26 16 down minus 32 down
27 Twice the result of 39 down plus 26 down
28 13 down minus 4 down
30 Seventy-one times a square
31 Half of 35 down
32 18 across minus 6 across
34 39 down plus 49 down
35 Mean of 22 across and 35 across
36 Thirty-one times a prime number
39 24 across minus 5 down
40 Half of 41 across, then subtract 28 down
42 35 down minus 45 down
43 Mean of 10 across and 40 down
45 20 down minus half of 22 across
46 Mean of 13 down and 6 down
47 Mean of 24 across and 6 across
49 Mean of 34 down and 52 across

Solution: