Cross Figure - Beginner Puzzle #27

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.

1	2	■	3 · 4	4	5	6	7 · 2	■	8	9
10		■	11 · 1		5	4		■	12 · 4	
13		14	■	15			■	16		
9	■	0	■	■	9	■	■		■	
17	18	■	19 · 8	20 · 2	■	21 · 5	22 · 2	■	23 · 6	1
■	24 · 6			0	■	25	1	3	4	■
26		■	27 · 6	1	■	28 · 9	0	■	29	30 · 6
	■	31	■	■	32	■	■	33 · 3	■	
34 · 9	35	6	■	36		37	■	38 · 1	39	4
40		■	41		0	1	42	■	43 · 3	
44 · 8		■	45		0	8	0	■	46 · 1	

Across

1 12 across minus 33 down
3 Ninety-eight times a prime number
8 24 across divided by 18 down
10 Twice the result of 34 across minus 4 down
11 Twice a prime number
12 17 across minus 10 across
13 Twice 36 down
15 31 down plus 16 down
16 29 across plus 14 down
17 8 down minus 44 across
19 29 across minus 1 across
21 Twice the result of 36 down minus 40 across
23 29 across minus 43 across
24 Sixty times a prime number
25 32 down plus 13 across
26 29 across minus 41 down
27 Same as 23 across
28 Six times 26 across
29 15 across minus half of 7 down
34 Forty-three times 7 down
36 Half of 35 down, then subtract 26 across
38 1 across times 16 down
40 13 across minus 8 down
41 A palindrome
43 29 across minus 27 across
44 Half of 31 down
45 Mean of 9 down and 5 down
46 3 down minus 33 down

Down

1 A prime number
2 37 down minus 26 across
3 Half of 19 across
4 19 down plus 43 across
5 Sixty-seven times a prime number
6 Seventy-seven times 16 down
7 35 down divided by nineteen
8 Mean of 21 across and 13 across
14 28 across minus 10 across
16 21 across minus 3 down
18 Five times a prime number
19 Twice a prime number
20 Rearranged digits of 22 down
21 23 down minus 42 down
22 26 across times 1 across
23 34 across reversed
26 Thirty-four times a square
30 Mean of 3 across and 41 across
31 16 across minus 14 down
32 Fifty-nine times a square
33 Mean of 7 down and 14 down
35 2 down plus 26 across
36 7 down plus 17 across
37 Thirty-eight times 16 down
39 Nine times a prime number
41 A square
42 40 across minus 16 down

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