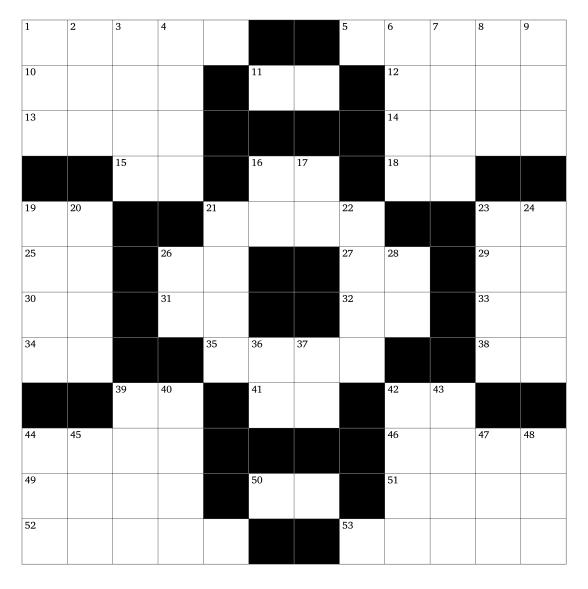


CrossFigure - Hard Puzzle #46

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 53 across and 1 down
- **5** First two digits are the same as first two digits of 47 down
- 10 21 across minus 8 down
- 11 30 across minus 16 across
- 12 Half of 24 down, then subtract 20 down
- 13 Seven times a prime number
- 14 40 down minus 6 down
- **15** A cube
- 16 Mean of 23 across and 42 across
- 18 7 down divided by 28 down
- 19 25 across minus 32 across
- **21** A prime number
- 23 37 down minus 33 across
- **25** Twice 28 down
- **26** 25 across minus 31 across
- **27** 48 down minus 39 across
- 29 30 across minus 31 across
- 30 Mean of 16 down and 37 down
- **31** 8 down divided by 50 across
- **32** 25 across minus 26 across
- **33** Three-fifths of 34 across
- 34 37 down minus 31 across
- 35 Mean of 51 across and 38 across
- 38 23 across minus 11 across
- **39** 5 across divided by 13 across
- **41** A square
- 42 Mean of 26 across and 18 across
- 44 6 down minus 27 across
- 46 44 across minus 48 down
- 49 Mean of 45 down and 24 down
- **50** 18 across minus 38 across
- 51 Two hundred eighty-four more than 44 across
- **52** 19 down times 31 across
- **53** Thirty-one times a prime number

Down

- 1 44 down minus 39 across
- 2 Eight times a prime number
- **3** 30 across times 25 across
- **4** 47 down plus 41 across
- 6 Mean of 20 down and 3 down
- 7 Five hundred eight less than 46 across
- 8 Mean of 9 down and 39 across
- 9 32 across times 42 across
- 16 39 across minus 38 across
- **17** 26 across minus 50 across
- 19 52 across divided by 32 across
- **20** Fifteen times 27 across
- **21** A prime number
- 22 19 across plus 10 across
- 23 Mean of 43 down and 15 across
- **24** Twenty-two times a prime number
- 26 17 down plus 50 across
- 28 Mean of 15 across and 29 across
- **36** 31 across plus 42 across
- **37** A square
- **39** 22 down minus 45 down
- **40** A prime number
- **42** Twice the result of 44 across minus 27 across
- **43** A prime number
- **44** Twice the result of 48 down plus 11 across
- **45** Eight times 50 across
- **47** Seventy-two times 11 across
- 48 Mean of 16 down and 1 down

Solution:

| 2 | 8 | 5 | 1 | 6 | | | 9 | 3 | 2 | 4 | 7 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| f | f | 4 | 0 | | 1 | 3 | | 3 | 5 | 0 | 3 |
| 1 | 2 | 1 | 1 | | | | | 3 | 8 | 7 | 7 |
| | | 2 | 7 | | 5 | 3 | | 6 | 3 | | |
| Ŧ | 1 | | | 8 | 1 | 4 | 7 | | | 3 | 9 |
| 8 | 2 | | Ŧ | 1 | | | 8 | 4 | | 5 | 5 |
| 6 | 6 | | 1 | 1 | | | 1 | 1 | | 4 | 2 |
| 7 | 0 | | | 1 | Ŧ | 8 | 1 | | | 2 | 6 |
| | | 7 | 7 | | 8 | 1 | | 6 | 7 | | |
| 3 | 2 | 5 | 2 | | | | | 3 | 0 | ٩ | 1 |
| 4 | 9 | 1 | 1 | | 3 | 7 | | 3 | 5 | 3 | 6 |
| 8 | 6 | 5 | 3 | 7 | | | 5 | 6 | 7 | 6 | 1 |