The Liersch-Patki 2 Crossnumber

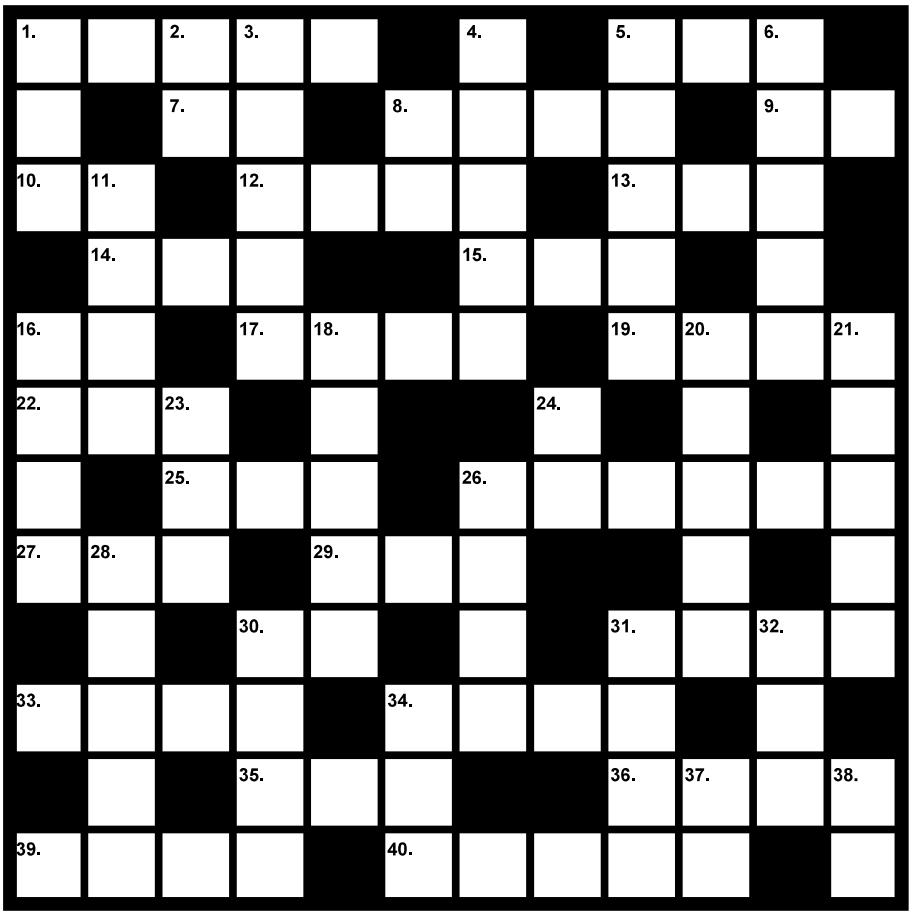

Figure 44:

Across Clues

1. The digit sum of 1 Across is equal to the digit sum of 16 Down multiplied by the digit sum of 40 Across.

5. The square of 9 Across.

7. 7 Across is a multiple of the second digit of 35 Across.

8. The cube of 8 Down.

9. The digit sum of 19 Across.

10. 23 Down $\div 11$.

12. 12 Across has the same digit sum as 5 Across.

13. (The digit sum of 5 Down, plus 1)^2.

14. (The digit sum of 25 Across)^2.

15. (The digit sum of 17 Across)^2.

16. The digit sum of 11 Down, plus 3.

17. The digit sum of 17 Across is equal to the square root of 15 Across.

19. The cube of 9 Across.

22. A permutation of the digits of 27 Across.

25. 25 Across is a multiple of the second digit of 1 Down.

26. 24 Down $\times$ 21 Down.

27. A permutation of the digits of 22 Across.

29. The digit sum of 29 Across is equal to the square root of 24 Down.

30. A multiple of one of the factors of 26 Across.

31. A permutation of the digits of 34 Across.

33. The square of 30 Across.

34. A permutation of the digits of 31 Down.

35. 35 Across is equal to the square root of 40 Across.

36. The cube of 37 Down.

39. (30 Across, plus the digit sum of 39 Across, minus 4)^2.

40. The square of 35 Across.

Down Clues

1. (The digit sum of 11 Down, plus 3)^2.

2. The digit sum of 3 Down, plus 6.

3. The cube of 7 Across.

4. (The digit sum of 17 Across)^4.

5. 5 Down has the same digit sum as 26 Down.

6. 6 Down is a multiple of the digit sum of 1 Across $\times$ the digit sum of 20 Down $\times$ the digit sum of 5 Across.

8. 8 Down is equal to the cube root of 8 Across.

11. 11 Down has the same digit sum as 30 Down.

16. The binary representation of 38 Down.

18. (23 Down, plus 128)^2.

20. 19 Across is divisible by the sum of the squares of the second and fourth digits of 20 Down.

21. A multiple of 16 Down.

23. The digit sum of 28 Down, plus the square root of the digit sum of 28 Down, plus 27 Across.

24. (The digit sum of 29 Across)^2.

26. 26 Down has the same digit sum as 32 Down.

28. The square of 27 Across.

30. 30 Down has the same digit sum as 11 Down.

31. A permutation of the digits of 31 Across.

32. 32 Down has the same digit sum as 26 Down.

34. 34 Down equals 35 Across.

37. A multiple of the third digit of 40 Across.

38. 16 Down is the binary representation of 38 Down.