The Miyoshi-Foo-Yoon Crossnumber - The Harder Version

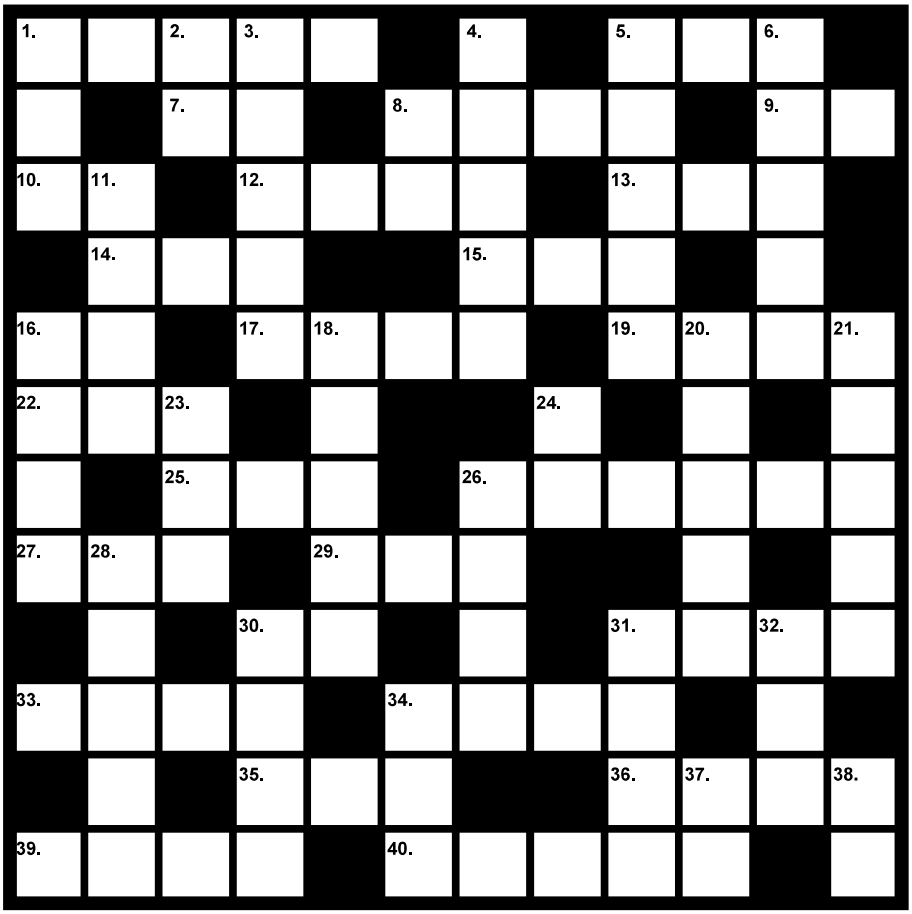

Figure 41:

Across Clues

1. The number of 4s in this completed crossnumber^4.

5. A rearrangement of the digits of the number of 1s in this completed crossnumber^2.

7. A multiple of the number of 6s in this completed crossnumber.

8. The number of 4s in this completed crossnumber $\times$ the number of 3s in this completed crossnumber $\times$ the number of 8s in this completed crossnumber $\times$ the number of 6s in this completed crossnumber.

9. The number of 1s in this completed crossnumber $\times$ the number of 6s in this completed crossnumber.

10. The number of 8s in this completed crossnumber^2.

12. The number of 4s in this completed crossnumber^3.

13. (the number of 1s in this completed crossnumber + the number of 3s in this completed crossnumber)^2.

14. (the number of 7s in this completed crossnumber - the number of 5s in this completed crossnumber)!

15. The number of 4s in this completed crossnumber^2.

16. The number of 0s in this completed crossnumber^3.

17. The number of 8s in this completed crossnumber^4.

19. The number of 1s in this completed crossnumber^3.

22. The number of 3s in this completed crossnumber^2.

25. The number of 7s in this completed crossnumber^3.

26. The number of 3s in this completed crossnumber^5.

27. The number of 6s in this completed crossnumber^3.

29. The digit sum of 29 Across is a multiple of the number of 3s in this completed crossnumber.

30. The number of 0s in this completed crossnumber $\times$ the number of 3s in this completed crossnumber.

31. The number of 4s in this completed crossnumber $\times$ the number of 2s in this completed crossnumber $\times$ the number of 1s in this completed crossnumber.

33. The digit sum of 33 Across is equal to the number of 9s in this completed crossnumber.

34. The digit sum of 34 Across is equal to the number of 4s in this completed crossnumber.

35. The digit sum of 35 Across is a multiple of the number of 1s in this completed crossnumber.

36. $2^{\text{the number of 5s in this completed crossnumber}}$ $\times$ the number of 3s in this completed crossnumber $\times$ the number of 7s in this completed crossnumber $\times$ $3^{\text{the number of 0s in this completed crossnumber}}$.

39. The digit sum of 39 Across is equal to number of 8s in this completed crossnumber^2.

40. (160$-$ the number of 0s in this completed crossnumber)^2.

Down Clues

1. The number of 7s in this completed crossnumber^3.

2. The number of 7s in this completed crossnumber^2.

3. The number of all non-zero digits in this completed crossnumber^2.

4. The number of 4s in this completed crossnumber^4.

5. The number of 3s in this completed crossnumber^4.

6. $3^{\text{the number of 6s in this completed crossnumber}}$.

8. The number of 7s in this completed crossnumber^2, written backwards.

11. $2^{\text{the number of 0s in this completed crossnumber}}$ $\times$ the number of 2s in this completed crossnumber^2 $\times$ the number of 7s in this completed crossnumber.

16. The number of 3s in this completed crossnumber^3.

18. The digit sum of 18 Down is equal to the number of prime digits in this completed crossnumber.

20. The number of 8s in this completed crossnumber^2 $\times$ the number of 9s in this completed crossnumber^2.

21. $2^{\text{the number of 4s in this completed crossnumber}}$.

23. The number of 0s in this completed crossnumber $\times$ a prime number.

24. The number of 0s in this completed crossnumber^3.

26. (the total number of digits in this completed crossnumber excluding 3s and 9s)^2.

28. The digit sum of 28 Down is equal to the number of 9s in this completed crossnumber + the number of 6s in this completed crossnumber.

30. The number of 6s in this completed crossnumber $\times$ (the number of 3s in this completed crossnumber + the number of 8s in this completed crossnumber)^2.

31. (the digit sum of 28 Down)^2.

32. A multiple of the number of 7s in this completed crossnumber.

34. $2^{\text{the number of 0s in this completed crossnumber}} \times$ the number of 7s in this completed crossnumber^2.

37. The number of 2s in this completed crossnumber $\times$ the number of 6s in this completed crossnumber.

38. The number of 7s in this completed crossnumber^2.