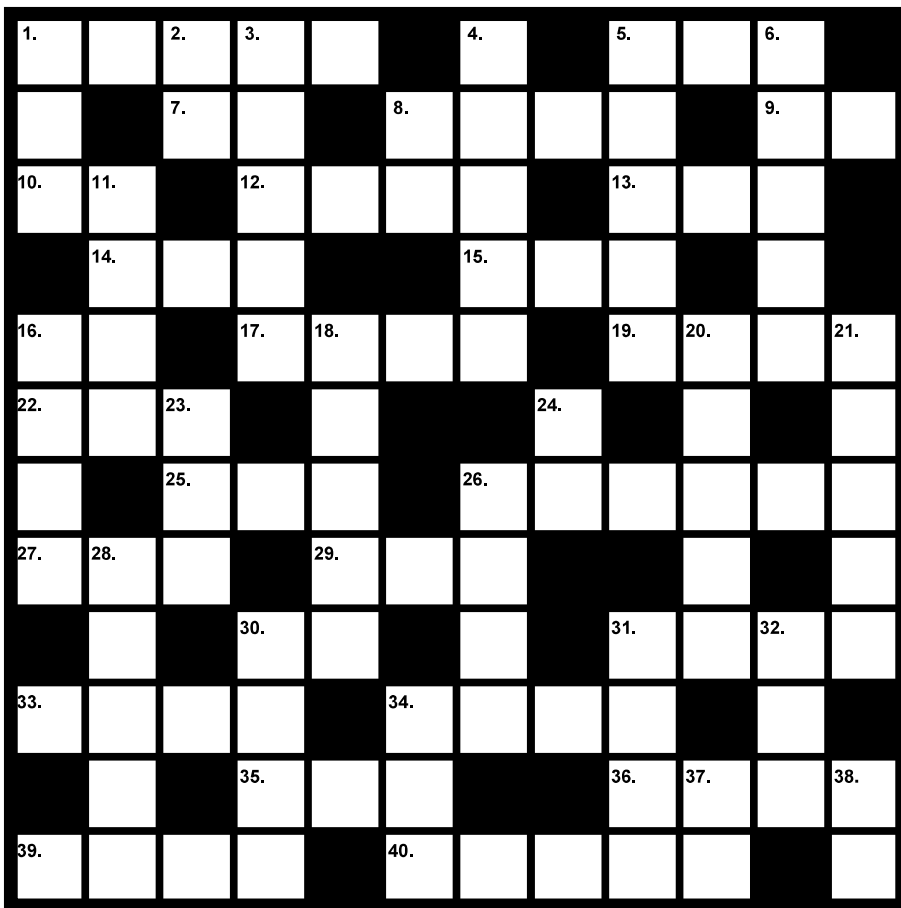# The Furuse Crossnumber

Figure 56:

Across Clues

1. A pronic number.

5. A trimorphic number.

7. A decagonal number.

8. A pentagonal number.

9. A triangle number.

10. A Padovan number.

12. A vampire number.

13. A Lucas number.

14. An untouchable number.

15. A hexagonal number.

16. A trimorphic number.

17. A pentagonal number.

19. A pronic number.

22. A pronic number.

25. A super-3 number.

26. A Kaprekar number.

27. A Padovan number.

29. A Sophie Germain prime.

30. A Sophie Germain prime.

31. A Perrin number.

33. A Lucas number.

34. An octahedral number.

35. A hexagonal number.

36. A hexagonal number.

39. An icosahedral number.

40. An icosahedral number.

Down Clues

1. A super-3 number.

2. A term in the tribonacci sequence beginning $9, 12, -10, \cdots$.

3. A Keith number.

4. An icosahedral number.

5. A hexagonal number.

6. A pentagonal number.

8. A p-gonal number, where p is equal to the number of 7s in this completed crossnumber.

11. The kth octahedral number (where the first octahedral number is 0) where k is equal to the number of 1s in this completed crossnumber.

16. A super-4 number.

18. An integer N such that it is mathematically undecidable whether or not N belongs to the OEIS sequence A053873.

20. A strobogrammatic number.

21. A pentagonal number.

23. A trimorphic number.

24. The Nth triangle number (where the first triangle number is 1) where N is equal to the number of 0s in this completed crossnumber.

26. A tetradic number.

28. A pentagonal number.

30. An octahedral number .

31. A quartan prime.

32. A Perrin number.

34. A pentagonal number.

37. An emirp.

38. A tetrahedral number.