

The Hugo Ryder Crossnumber

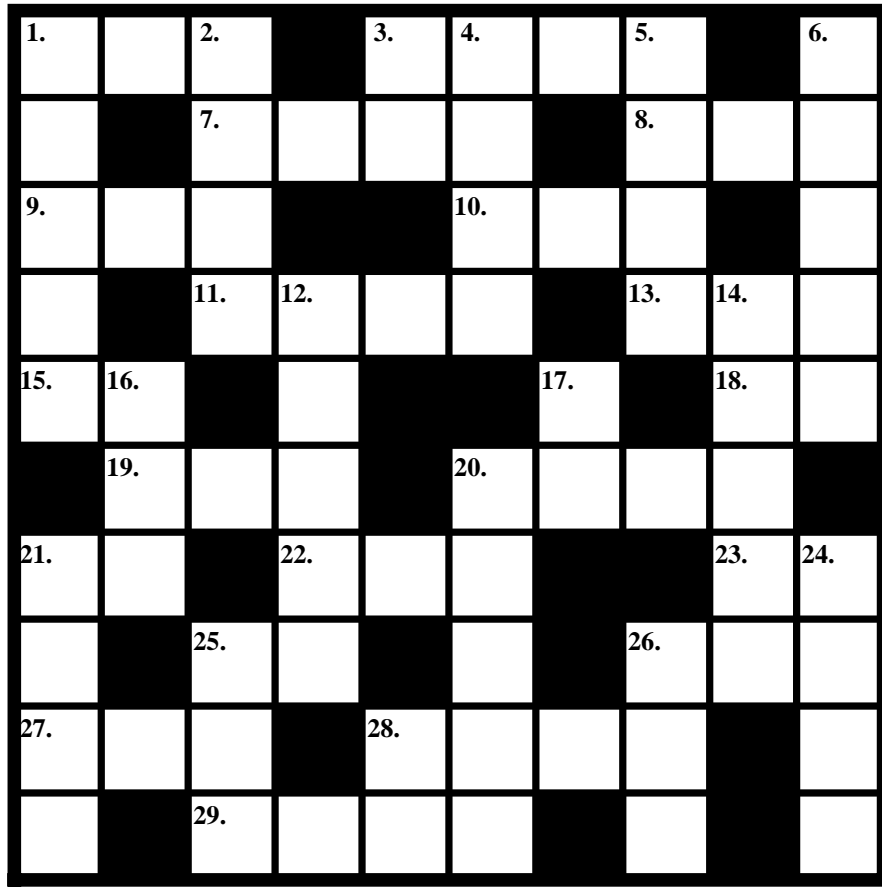


Figure 1:

Across Clues

1. A square number.
3. A multiple of 1102.
7. This number has a digit sum of 9.
8. A square number.
9. A square number.
10. A square number.
11. This number has a digit sum of 18.
13. A cube number.
15. A prime number.
18. A prime number.
19. The middle digit of this number is equal to 19 minus the number of 9s in this crossnumber, once completed.
20. $a! - b!$, where a and b are integers.
21. This number has a digit sum of 13.
22. A cube number.
23. The digit sum of 15 Across.
25. This number is a product of two distinct primes.
26. A square number.
27. A square number.
28. A cube number.
29. A 4th power.

Down Clues

1. A palindromic number with a digit sum of 18.
2. A power of 2, written backwards.
3. This number is a product of two distinct primes.
4. A power of 2.
5. A cube number.
6. A multiple of 11111.
12. A multiple of 11111.
14. A palindromic number with a digit sum greater than 10.
16. A cube number.
17. A multiple of 7.
20. A permutation of the digits $\{1, 2, 3, 4, 5\}$ with a longest monotonic subsequence of length four.
21. A multiple of 2020.
24. A 5th power.
25. A cube number.
26. A palindromic number with a digit sum of 7.
28. A multiple of 3.