

# The Trial, 2026: **Puzzle**



## A Crossword

*Mr. Robert is used to the conventions of cross-examination, as long as protocol is followed to the letter.*

1	2	3			4	5	6
7				8			
9			10				
		11			12	13	14
15	16			17			
18				19			
			20			21	22
23	24	25			26		
27					28		

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*[Note: There are no leading zeros anywhere, and  $n$  is always a nonzero natural number]*

**Across**

1. Elementary no.?
4. Holmes' home?
7. Area code where you are (most likely).
8. Famous no. (and a MoMath favorite!)
9. Famous zip code.
11. Fields Medal winning upper bound?
12. Prime used in Euler vs. Fermat.
15.  $(3n)^n$ , for some  $n$ .
18.  $n^{n+2}$ , for some  $n$ .
19. C in a D, or W in a Y, usually.
20.  $n \cdot (6D)^n$ , for some  $n$ .
23. Call DESK?
26.  $1 + \sum_{k=1}^n k^k$ , for some  $n$ .
27. Sum of the first  $n$  squares, for some  $n$ .
28.  $(14D)^2$ .

**Down**

1. Sum of the first  $n$  primes, for some  $n$ .
2. Sum of three consecutive squares.
3.  $(2 \cdot (12A))$ -th triangular no.
4.  $n^n$ , for some  $n$ .
5. Catch no.?
6. See 20A.
8. Your usual base?
10. This many dogs spotted?
12.  $(21D)^2$ .
13. 6 x 9 (according to Adams).
14. This no.?
15.  $a^b$ , if 20D is  $b^a$ .
16. 5-item derangements.
17. No. mentioned a lot this year in the US.
20.  $a^b$ , if 15D is  $b^a$ .
21. Usual reason for 6's fear.
22. Sum of the first few primes after 2D.
23. Least perfect square?
24. Factor of 25D.
25. Multiple of 24D.