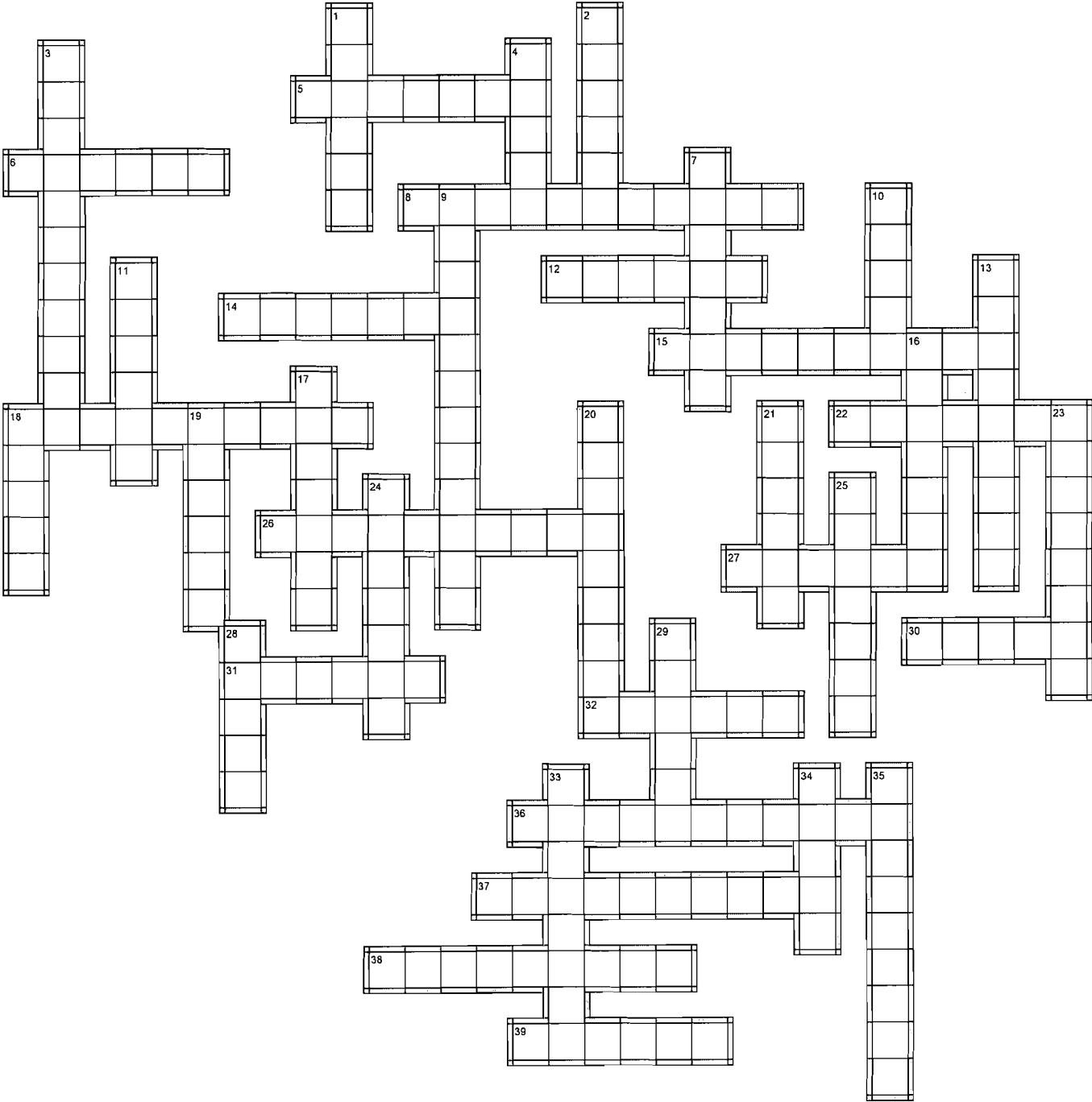


Mathematicians and Scientists



Mathematicians and Scientists

Across

5. Formulated the basic laws of falling bodies
6. World chess champion who introduced the notion of a primary ideal
8. Constructed the theory of complex functions by means of power series
12. Contributed to the theory of elliptical functions
14. Work in geometry had the greatest influence in that area after Euclid
15. Inventor of pulleys and a screw pumping device
18. First to prove a famous right triangle theorem
22. Proved the stability of the solar system, put the theory of mathematical probability on a sound footing
26. Polish astronomer and mathematician who proposed the earth's yearly motion around a stationary sun
27. Founded set theory
30. Born in Italy, took part in the Los Alamos project to build the atomic bomb
31. Greek mathematician who wrote "The Elements"
32. Scottish scholar who invented logarithms
36. Worked on the theory of waves, discovered the gas Argon (2 wds)
37. Worked extensively in Fractal Geometry
38. Introduced the Hindu-Arabic place-valued decimal system and the use of Arabic numerals into Europe
39. French lawyer who worked in the foundations of calculus
17. Pseudonym for Charles Dodgson
18. Recent mathematician who worked in probability, analysis, number theory, geometry, combinatorics, and mathematical physics
19. Produced a method of determining when a general equation could be solved by radicals
20. Developed a general calculus for vectors
21. Between 1820 and 1823 prepared a treatise on a complete system on non-Euclidean geometry
23. Theory of Relativity
24. German mathematician who developed the present day notation for the differential and integral calculus
25. Investigated "integration in infinitely many dimensions"
28. Founder of symbolic logic
29. Gave three fundamental laws of planetary motion, worked in optics and geometry
33. Originator of algebraic topology
34. French mathematician who introduced the first systematic algebraic notation
35. Investigated number theory, famous for orthogonal polynomials

Down

1. Initiated the study of quantum mechanics
2. Established the science of hydrodynamics
3. First account on non-Euclidian geometry to appear in print
4. Approached logic by reducing it to simple algebra
7. First to provide a rigorous proof that pi is irrational
9. Famous for work on prime numbers and for measuring the diameter of the earth
10. Father of differential geometry
11. Pioneered the theory of permutation groups
13. "I think, therefore I am."
16. Published a paper which considered both the motion of the source and the motion of the observer on the apparent pitch of sound