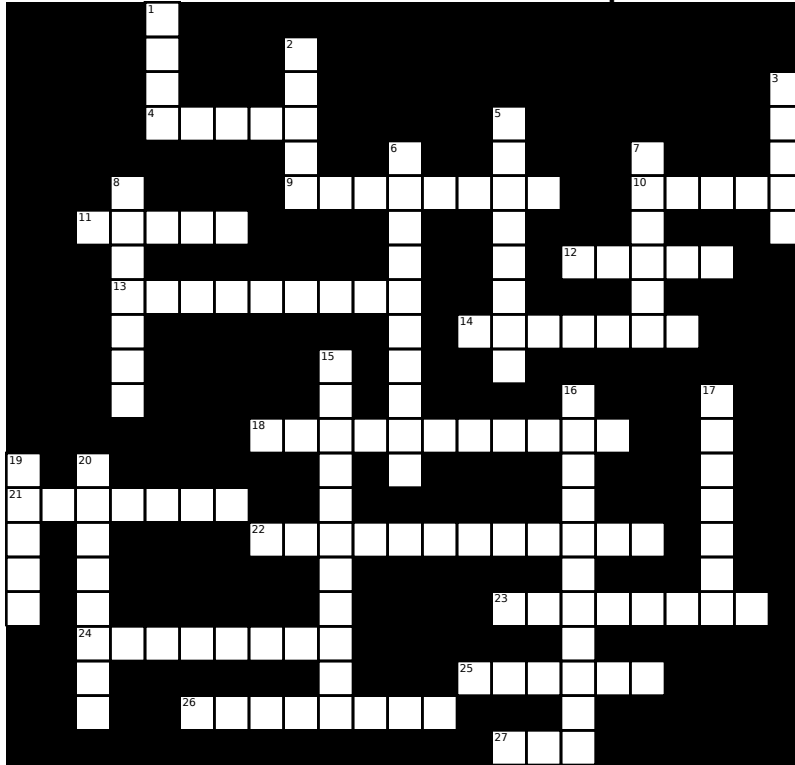


Mathematics

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This puzzle will probably require you to use typical university library reference resources for mathematical sciences in order to complete it.



Across

- 4 He was given permission to visit Johann Bernoulli freely every Saturday afternoon
- 9 _____ Professor of Mathematics was once held by Sir Michael James Lighthill, FRS
- 10 Apollonius of _____
- 11 Famous mathematician that worked at the observatory at Göttingen for forty-seven years
- 12 His function is now extensively used in the solution of partial differential equations
- 13 Shared the 1883 Grand Prix des Sciences Mathématiques with H.J. Smith
- 14 German mathematician, known for her highly creative work in the theory of rings , non-commutative algebras and other areas of abstract algebra
- 18 Between two random variables, this is a measure of the extent to which a change in one tends to correspond to a change in the other.
- 21 German mathematician, philosopher, scientist and writer on a wide range of subjects, who was, with Newton , the founder of the calculus
- 22 Authored "Tractatus Logico-Philosophicus"
- 23 His "cut" was introduced in 1872
- 24 The paradox which arises from considering how overtaking takes place
- 25 Professor Peter Andrew's Dissertation Advisor
- 26 The problem of packing one bin with items of different sizes, where the items have an associated value, so as to maximize the total value
- 27 Abbreviation for if and only if

Down

- 1 A quadrilateral that has two adjacent sides of equal length and the other two sides of equal length
- 2 Proved the minimax theorem for three players
- 3 The logic of necessity and possibility
- 5 A one-to-one function whose values are easy to calculate but whose inverse is difficult to evaluate
- 6 _____ number (pseudo-prime)
- 7 A closed surface that is the locus of all points that are a fixed distance (the radius) from a given point (the centre).
- 8 One of a family of linear single error-correcting codes that can also detect (but not correct) two errors
- 15 Used in algebraic expressions to change the order in which arithmetic operations are to be carried out
- 16 Commonly recognized name of an important index to the literature of 18th and 19th century science
- 17 Author that Professor David Ross Owen has collaborated with the most
- 19 The name conventionally used for the sender of an encrypted message
- 20 Narrowly missed becoming the first to discover a non-Euclidean geometry in 1733