

**INTUITIVE CALCULATIONS;
THE MOST CONCISE METHODS
EVER PUBLISHED, DESIGNED
FOR THE USE OF ALL CLASSES**

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Intuitive Calculations; The Most Concise Methods Ever Published, Designed for the Use of All Classes by D. O'Gorman

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D. O'GORMAN

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Mathematics

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Manchester, October, 1865.

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01-10-35 M.C.W.

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"Miss Sherwell begs to inform Mr. O'Garman, that Her Majesty received the Arithmetic which he sent. Her Majesty thinks it is a Book likely to be of great service in teaching ready calculations.

"Her Majesty was graciously pleased to accept of the copy.

"Mr. D. O'Garman."

LITERARY NOTICES.

AMIALE CONDUCT OF HER MAJESTY TO A RESIDENT OF THIS CITY.—
"Her Majesty has been pleased to receive the book, and has, in the most handsome manner, expressed her high opinion of the merits of the work. Such a criticism, from the most illustrious personage in the realm, must go far to render the book universally sought after, and a thirteenth edition is already, we understand, in the press."—*Durham Chronicle*.

"Some short time ago Mr. O'Gorman published an Arithmetic, showing a simple and ready mode of performing various calculations. The author sent a copy of his new work as a New Year's present to the young Prince of Wales. Mr. O'Gorman received an acknowledgment from Her Majesty, which, perhaps, is the first instance on record of a testimonial being given by the most illustrious personage in the realm on the merits of a book."—*Sunderland Herald*.

"Persons now well matured in years may remember with a sigh—in the days when they were boys—

'The good old days when George the Third was King'—

the roundabout mode of calculation they were taught by their arithmetic master, and the quantity of time and paper they used to consume in noting down figures to solve a rule-of-three sum. But in the thirty or forty years that have elapsed since then everything has been going on—as Brother Jonathan would say—on the 'go-ahead' principle. Slow has been abolished for expeditious travelling—the stage-coach has given place to the railway train; the sailing vessel to the steampacket. It now seems that we are to do away with any jog-trot pace in calculations. Difficult sums which took those now 'in the sars, the yellow leaf,' a quarter of an hour to solve when they were youngsters, can now be done by their sons or grandsons in a minute or two, and instead of on a sheet of foolscap paper, on the back of a small card. Mr. O'Gorman's system brings to bear upon common arithmetic the principle of algebraic brevity. Surely never since numbers became a science was there ever such a ready and rapid method for solving questions in arithmetic, even the most difficult and the most complicated. The rules are easy, brief, and explicit, with clear examples given after each, and to render these rules comprehensible, a reason attached to each. The book is useful to young as well as to old people—to men in business, even to accountants, who, whatever methods they may have adopted by their own ingenuity to expedite and facilitate calculations, will derive benefit from a perusal of Mr. O'Gorman's book. To recommend it were supererogatory; we have only to record that it has already had nearly twenty thousand purchasers, from the highest to the lowest in the land, and that its immense popularity is well merited on account of its great and universal utility."—*Weekly Times*.

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"The value of time in the counting-house, or behind the counter, needs no comment; and how much of that time is occupied by even good arithmeticians is known to every employer. A work therefore that has the effect of facilitating existing systems; but better still, of superseding them by one which gives to mental calculation the certainty of proof, is indeed an acquisition which cannot be too highly estimated. We find in this work rules which we have verified, by which six ordinary calculations are reduced to two, and frequently to one. We cannot too highly commend the volume to masters of schools, or to those young men who, entering into business, whether as employers or employed, would wish to shorten their labour at their books, and ensure accuracy beyond the reach of accident. Her Majesty has given the treatise the honour of her patronage." *Southampton Gazette*.

"This seems to us the most useful book of its kind we have ever seen. Its merits are sufficiently testified by a twelfth edition of eighteen thousand subscribers, including some of the most eminent names in the commercial world."—*Standard*.

"We would direct the attention of parties engaged in business to a valuable little publication, entitled *Intuitive Calculations*, by Mr. D. O'Gorman, who is now on a visit to this town, with a view to promote its general adoption. In these railway times, expedition has, undoubtedly, become the order of the day, and not only in our means of locomotive communication, but in the operations of trade and commerce also, the attainment of the utmost possible despatch is regarded as essential. This is the object of Mr. O'Gorman to promote, and he has done so effectually, so far as figures are concerned, for those who are disposed to consult the pages of his inexpensive little volume. He has laid down plain and simple principles, by which business calculations may be made with equal certainty, but with greater rapidity than by the prescribed rules of arithmetic. Of what, for instance, is commonly known as 'long division,' examples are given, showing the quotient in one line at the bottom, like 'short division.' No stronger recommendation, however, can be given to the work than the fact that it has reached a twelfth edition."—*Birmingham Herald*.

"Mr. O'Gorman's 'Calculations,' correctly termed, 'Intuitive,' is that which suggests itself to any man accustomed to calculations, as distinguished from conventional rules. It must have occurred to many that almost every man reckons 'in his own way,' and that way is generally any other than the one taught him at school. Mr. O'Gorman has, as it were, reduced his natural process of calculation to a system, and made a very interesting and instructive volume."—*Birmingham Journal*.

"This is one of the simplest and shortest systems of popular Arithmetic that we ever met with. To those who have the painful remembrance that we have of the labour which it costs boys to work the old rule of three problems, according to Gough or Cocker, this little volume will appear one of the *treasures of the rising generation*. Many of the rules for solving with certainty, and in an instant, the most complicated arithmetical questions, are so simple that a child may comprehend them. *The work is really a marvel of ingenuity.*"—*Hull Advertiser*.

"We have been careful to give attention to the rules laid down, and examples given after each rule, in Mr. O'Gorman's improved system of calculation; and, from the manner in which the author has treated the science of numbers, we are not at all surprised at the extended patronage he has already received. Our opinion as to its merits is, we are happy to say, corroborated by that of men of science, as well as our brethren of the press, as will appear from the testimonials appended to the work. We ought, perhaps, to add, that Mr. O'Gorman's method can be attained without the aid of a master; his book is, therefore, adapted not only to aspiring youth, but to those more advanced in life, who by its study, will effect a great saving of time and labour in all ordinary transactions."—*Newcastle Guardian*.

"Mr. O'Gorman's new work has gained a favourable critique from Her Majesty and a great portion of the local press. The system would appear to be just that which every clever man of business has suggested to him in his experience, as distinguished from the roundabout mode taught in the arithmetics in common use. The author, it will be seen, is also his own bookseller."—*Newcastle Journal*.

"Mr. O'Gorman's *Intuitive Calculations* is the most concise course ever published. We some time ago possessed ourselves of a copy of the work, an improved edition of which, the author, we believe, is about to issue. Its contents fully justify its title. It is calculated to be of great service to men of business, and, indeed, to all classes. It is a striking example of labour and ingenuity on the part of its author."—*Stockton Times*.

"In the present railway era, expedition in most things is desirable; and to a man of business, any method that will expedite calculations and simplify accounts, must be of the utmost importance. Such a method will be found in Mr. O'Gorman's *Intuitive Calculations*; and his explanations are so clear, that they will be readily understood by every person who has any knowledge of figures."—*Nottinghamshire Guardian*.

"We have pleasure in drawing attention to Mr. O'Gorman's improved method of acquiring a knowledge of arithmetic. To all persons engaged in business, a perusal of this treatise would greatly facilitate the transacting of accounts; and to young persons it may be recommended as a useful guide to a most essential branch of education."—*Preston Guardian*.

"Mr. O'Gorman's *Intuitive Calculations* is a well-written and useful work, particularly adapted to men in business, with whom training in ready calculation ought not to be neglected. An immense waste of time is incurred by a defective practice in this respect; and, indeed, than arithmetic in general, there is no science where the acquisitions of boyhood are less made use of in maturer years. Men of business habits—nay, accountants themselves—will often be found spending hours or days in multiplying and dividing, adding and subtracting—covering with figures a space as great as the wall of a house—where the use of the simplest algebraic formulae would have solved the difficulty at an expense of three minutes of time and three square inches of writing paper. Mr. O'Gorman's work is meant, and we think succeeds, in reducing to popular practice the principles of this most important branch of education."—*Liverpool Mercury*.

"We have often wondered at the slavish adherence of people in business to the old system of doing all their calculations by what are called 'Ready Reckoners,' which are as numerous and various as the hues of the chameleon. Even these 'helps to count' do not save calculation, as, were they to meet all possible cases, their bulk would be referable to the favourite exclamation of Dominic Sampson. Any attempt, therefore, to simplify arithmetic, so as to make every man and woman their own 'Ready Reckoner' is a step in the right direction; and we have much pleasure in calling attention to Mr. O'Gorman's new system of *Intuitive Calculations*, a work which we have every reason to believe will, with very little study, supersede the antiquated system of dependence on 'Reckoners,' however 'ready' they may be supposed to be. As a manual for schools, it must be invaluable; and we believe the work has already been introduced into upwards of five hundred seminaries."—*Glasgow Constitutional*.

"In the work before us, the methods laid down are easily digested, and come within the comprehension of almost any capacity, and the rules are so clear and short, with a reason attached to each, that the mind must be dull, indeed, which cannot, after a perusal of it, transact business in the tenth part of the time usually occupied on such occasions. There is a brevity with perspicuity that enhances the value of the book, and in our opinion, it would be well if it were on the counter, and in the counting-house of every business-man in the united kingdom."—*Stirling Observer*.

INTUITIVE ARITHMETIC.—"The treatise published under this title by the author, Mr. O'Gorman, is really what the advertisement in another page asserts it to be, namely—the readiest and most concise method of calculation ever published. The rules are brief, yet perfectly explicit; and a reason being attached to each, a lasting impression is thus imparted to the youthful mind. The results, too, are given in a sixth part of the compass usually occupied by those in similar works. The system of Mr. O'Gorman is therefore not only novel but unique. In short, it may be denominated the *Royal Railroad* to arithmetic, having obtained the patronage of Her Majesty the Queen to the work, as a book likely to be of great service in teaching ready calculation."—*Caledonian Mercury*.

"How many men there are who would be deeply grateful for the ability to make their commercial calculations with facility and despatch, but who—remembering that they bestowed in their school-days many years of unrequited labour and anxiety in the endeavour—utterly despair of ever being able to gain anything like a satisfactory mastery over the science of numbers. During the adult life, treatise after treatise has been consulted with the hope that the secret of success would at length be discovered; but the search for the philosopher's stone to the man of business has been fruitless. Calculations have, therefore, continued to go on, even in the nineteenth century, at a mere jog-trot pace, and the operations are consequently regarded by many men as the most disagreeable, although amongst the most necessary, of their commercial duties. A gleam of hope, however, may yet be entertained that the science of numbers will ere long be generally considered as one of the most simple and easily acquired accomplishments of the age. Mr. O'Gorman, in the work before us, has rendered the study of arithmetic exceedingly plain and intelligible, and to those who are accustomed only to the long and tedious processes hitherto in use, the ready and