

# Number Theory and Its History



Oystein Ore

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## Number Theory And Its History:

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could be more beautiful than a deep satisfying relation between whole numbers One is almost tempted to call them wholesome numbers] In fact it is hard to come up with a more appropriate designation than their learned name the integers meaning the untouched ones How high they rank in the realms of pure thought and aesthetics above their lesser brethren the real and complex number whose first names virtually exude unsavory involvement with the complex realities of everyday life Yet as we shall see in this book the theory of integers can provide totally unexpected answers to real world problems In fact discrete mathematics is taking on an ever more important role If nothing else the advent of the digital computer and digital communication has seen to that But even earlier in physics the emergence of quantum mechanics and discrete elementary particles put a premium on the methods and indeed the spirit of discrete mathematics

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 Farey fractions periodic continued fractions best rational approximations and Pell s equation Results are applied to factoring  
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Zuckerman,Hugh L. Montgomery,1991-09-03 The Fifth Edition of one of the standard works on number theory written by internationally recognized mathematicians Chapters are relatively self contained for greater flexibility New features include expanded treatment of the binomial theorem techniques of numerical calculation and a section on public key cryptography Contains an outstanding set of problems      *Roots to Research* Judith D. Sally,2007-01-01 Certain contemporary mathematical problems are of particular interest to teachers and students because their origin lies in mathematics covered in the elementary school curriculum and their development can be traced through high school college and university level mathematics This book is intended to provide a source for the mathematics from beginning to advanced needed to understand the emergence and evolution of five of these problems The Four Numbers Problem Rational Right Triangles Lattice Point Geometry Rational Approximation and Dissection Each chapter begins with the elementary geometry and number theory at the source of the problem and proceeds with the exception of the first problem to a discussion of important results in current research The introduction to each chapter summarizes the contents of its various sections as well as the background required The book is intended for students and teachers of mathematics from high school through graduate school It should also be of interest to working mathematicians who are curious about mathematical results in fields other than their own It can be used by teachers at all of the above mentioned levels for the enhancement of standard curriculum materials or extra curricular projects Book cover

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