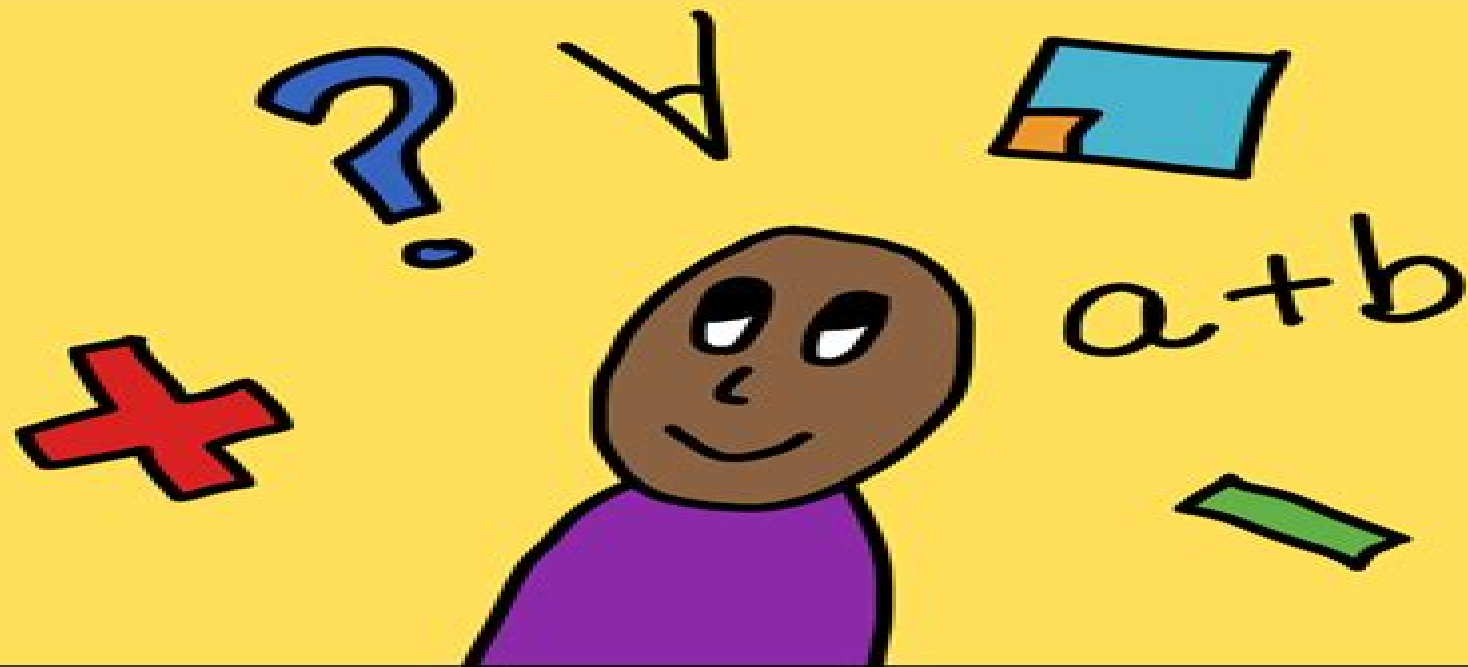


# WHAT IS A MATHS INVESTIGATION?



TEACHING TIPS FROM GALARIOUS GOODS



# Mathematical Investigations

**Irving Fisher**



## **Mathematical Investigations:**

**Mathematical Investigations in the Theory of Value and Prices, and Appreciation and Interest** Irving Fisher, 2007-11-01 Here in one volume are two classics of the foundations of modern finance from America's first celebrated economist Irving Fisher for whom the Fisher equation, the Fisher hypothesis and the Fisher separation theorem are named. In 1892's *Mathematical Investigations in the Theory of Value and Prices* and 1896's *Appreciation and Interest* Fisher explores how the numbers of consumers and the numbers of available commodities are more mysterious than they seem at first glance; what happens when production and consumption are examined jointly; how commodities influence one another; the relationship between appreciation and debt; formulas for varying rates of interest and appreciation; the impacts of zero and negative interest; and much more. American economist IRVING FISHER (1867-1947) was professor of political economy at Yale University. Among his many books are *The Rate of Interest* (1907), *Why Is the Dollar Shrinking?* (A Study in the High Cost of Living, 1914), *Booms and Depressions* (1932) and *The Purchasing Power of Money* (1912). [Mathematical Investigations in the Theory of Value and Prices](#) Irving Fisher, 1925 [Maths Investigations](#) Susan Levy, 2021-03-01 The activities in Maths Investigations have been structured to provide materials that are appropriate to the needs and abilities of a range of abilities in the mathematics class. At this stage of their mathematics education, students should be required to investigate concepts in considerable depth. Accordingly, some activities in this book stretch over several pages, perhaps requiring students to carry an idea over from day to day as they move through a particular unit. This idea of mathematical investigations is intended to provide challenge for students, to encourage them to look at the real-life aspects of mathematics and to stimulate them to go to even further depths than the text provides for. **Mathematical Investigations** Randall J. Souviney, M. Britt, S. Gargiulo, P. Hughes, 1990 Meaningful mathematical experiences with interconnected situational lessons and real-world activities. Book One: geometry, patterns, operations, research, photography, and genetic inheritance. Book Two: networks, sports, math, finite difference, patterns, rates, and maps. Book Three: fundamentals of money, scaling, finance, loans, probability, and linear programming. Each investigation includes individual and whole-class activities plus a Check-up that tests students' understanding. **Mathematical investigations** Phil DeMarois, Mercedes McGowen, Darlene Whitkanack, 2008-12-19 **Mathematical Investigations** Phil DeMarois, Mercedes A. McGowen, Darlene Whitkanack, 2001 Reflective of AMATYC and NCTM standards for teaching mathematics, this text, the first in a series of two texts, aims to make mathematics truly accessible to all students by taking an active approach to learning. Focused on mathematical reasoning and problem-solving strategies, *Mathematical Investigations* presents a series of carefully sequenced investigations where students gather data and work collaboratively to discover key concepts. The function concept is central to all topics from Chapter 3 forward and is explored through multiple representations. This text explores variables, notation, and processes explicitly rather than assuming students have mastered these concepts in previous courses. Content is explored in depth and contextual problems are

revisited throughout the text to create a spiral that gives students multiple opportunities to master important skills and concepts Graphing calculators are integrated throughout the text to help students discover patterns and interpret data intelligently Students construct their knowledge of a particular topic in a real world context and then reinforce this knowledge through reflection practice and synthesis with other topics as they work through the text

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**Mathematical Problem Posing** Florence Mihaela Singer, Nerida F. Ellerton, Jinfa Cai, 2015-06-12 The mathematics education community continues to contribute research based ideas for developing and improving problem posing as an inquiry based instructional strategy for enhancing students learning A large number of studies have been conducted which have covered many research topics and methodological aspects of teaching and learning mathematics through problem posing The Authors groundwork has shown that many of these studies predict positive outcomes from implementing problem posing on student knowledge problem solving and posing skills creativity and disposition toward mathematics This book examines in depth the contribution of a problem posing approach to teaching mathematics and discusses the impact of adopting this approach on the development of theoretical frameworks teaching practices and research on mathematical problem posing over the last 50 years

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**Problem Solving in Mathematics Education** Torsten Fritzlar, Daiela Assmus, Kerstin Bräuning, Ana Kuzle, Benjamin Rott, 2016-06-30 From 3rd to 5th of September 2015 the 17th international ProMath conference Problem Solving in Mathematics Education took place at the Faculty of Education of the Martin Luther University Halle Wittenberg Germany For the first time it was combined with the annual meeting of the working group Problem Solving of the Society of Didactics of Mathematics This book contains 20 peer reviewed articles of researchers from five European countries The topics of the papers evolved around different areas of learning and problem solving There are some theoretical papers on problem oriented mathematics instruction and specific aspects of problem solving and creativity as well as reports on detailed studies of problem solving processes of pupils and preservice teachers Authors also present experiences with real problem solving instruction in different countries considerations and teaching experiments on didactic concepts to foster pupils problem solving abilities and they describe mathematically rich problem fields and their potentials for mathematical investigations in class ProMath is a group of experienced and early career researchers in the field of mathematics education who are interested in investigating and fostering mathematical problem solving and problem oriented mathematics teaching      The  
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