

Singapore Mathematics Education Series

TEACHING PRIMARY SCHOOL MATHEMATICS

A RESOURCE BOOK

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LEE PENG YEE
LEE NGAN HOE

2ND
EDITION

Problems In Teaching Primary School Mathematics

**Robyn Jorgensen, Shelley Dole, Kevin
Charles Larkin**



Problems In Teaching Primary School Mathematics:

Reforms and Issues in School Mathematics in East Asia, 2010-01-01 Worldwide efforts to improve students learning of mathematics have turned educational researchers attention to some high achieving education systems especially those in East Asia including Chinese Mainland Hong Kong Japan Singapore South Korea and Taiwan However there is much less sharing and learning of educational policy and practices that goes beyond one or two such high achieving education systems At this time when educational changes and reforms for improving students learning of mathematics are also underway within these high achieving education systems in East Asia it becomes timely and important for the world to learn why and how relevant changes take place across these selected education systems This book has put together a set of papers that individually presents issues on the changing mathematics curriculum and teacher education in the six high achieving education systems in East Asia Collectively the book extends beyond what we can learn about exemplary practices in individual education systems in East Asia It helps us develop a better understanding of the interplay between various measures for the pursuit of excellence in mathematics curriculum and teacher education on the one hand and the different system contexts on the other The intended readers of the book include education policy makers curriculum developers researchers teachers teacher educators and anyone else interested in school mathematics curriculum and teacher education

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

Teaching Mathematics in Primary Schools Robyn Jorgensen, Shelley Dole, Kevin Charles Larkin, 2020 This is an outstanding book it should be high on the list of any primary school teacher s set of references and a required text for pre service teachers Australian Primary Mathematics Classroom In our technology rich world numeracy is just as important as the smartphone in your pocket Students need to develop mathematical ways of seeing the world and strong problem solving skills and those foundations are taught in the primary school classroom Teaching Mathematics in Primary Schools covers the mathematical content taught in primary and middle years always emphasising how students can connect what they learn in mathematics with other curriculum areas and with the world beyond the classroom The authors draw on the latest international research to show how teachers can develop a rich repertoire of

classroom teaching techniques and effective planning assessment and reporting methods They outline approaches to creating supportive learning environments for all students and to building their knowledge and confidence in using mathematics This third edition has been updated throughout and includes a new chapter on numeracy Evidence based uses of digital technologies to support learning and teaching are included in every chapter With practical strategies that can be implemented in the classroom this book is an invaluable resource for pre service and early career primary and middle years mathematics teachers

Journal of Problem-solving in Education ,1998 **Helping Children Learn Mathematics** Robert Reys,Mary Lindquist,Diana V. Lambdin,Nancy L. Smith,2014-10-20 The 11th Edition of Helping Children Learn Mathematics is designed to help those who are or will be teachers of mathematics in elementary schools help children develop understanding and proficiency with mathematics so they can solve problems This text is built around three main themes helping children make sense of mathematics incorporating practical experiences and using research to guide teaching It also integrates connections and implications from the Common Core Standards Mathematics CCSS M

Resources in Education ,1990-10 **Tasks in Primary Mathematics Teacher Education** Barbara Clarke,Barbro Grevholm,Richard Millman,2008-10-25 Tasks in Primary Mathematics Teacher Education is intended to advance relevant research and innovative international practices in the preparation and professional development of mathematics teachers Emerging from discussion at the ICMI study on teacher professional development this volume focused on primary and elementary teachers culls a richness that can only be found by gathering wisdom from varied experiences around the world The choice of tasks and the associated pedagogies is a key aspect of teaching and learning mathematics Arguing that what students learn is largely defined by the tasks they are given several major themes are presented One such major strand the form function and focus of tasks is discussed throughout several chapters offering analysis discussion of implementation and exemplars of a broader category of illustrative techniques for developing critical understanding Proceedings Of The 14th International Congress On Mathematical Education (In 2 Volumes) Jianpan Wang,2024-06-07 The International Congress on Mathematical Education ICME is the largest international conference on mathematics education in the world This quadrennial event is organized under the auspices of the International Commission on Mathematical Instruction ICMI This book the Proceedings of ICME 14 presents the latest trends in mathematics education research and mathematics teaching practices at all levels Each chapter covers an extensive range of topics in mathematics education Volume I consists of 4 Plenary Lectures 3 Plenary Panels 5 Lectures of Awardees 4 Survey Teams 62 Topic Study Groups 13 Discussion Groups 20 Workshops a Thematic Afternoon and an Early Career Researcher Day Plenary Lectures recognize substantial and continuing contributions to the growth of the field of Mathematics Education Plenary Panels address three major challenges currently facing mathematics educators across the globe The Survey Teams have a particular emphasis on identifying and characterizing important new knowledge recent developments new perspectives and emergent issues The Topic Study

Groups provides a coverage of important topics in mathematics education Volume II consists of 50 invited lectures which present the work and reflections of both established and emerging researchers from around the world These lectures cover a wide spectrum of topics themes and issues that reflect the latest challenges and development in the field of mathematics education

The Teachers Journal and Abstract ,1926 Teaching Mathematics in Primary Schools Robyn Jorgensen,2020-08-12 This is an outstanding book it should be high on the list of any primary school teacher s set of references and a required text for pre service teachers Australian Primary Mathematics Classroom In our technology rich world numeracy is just as important as the smartphone in your pocket Students need to develop mathematical ways of seeing the world and strong problem solving skills and those foundations are taught in the primary school classroom Teaching Mathematics in Primary Schools covers the mathematical content taught in primary and middle years always emphasising how students can connect what they learn in mathematics with other curriculum areas and with the world beyond the classroom The authors draw on the latest international research to show how teachers can develop a rich repertoire of classroom teaching techniques and effective planning assessment and reporting methods They outline approaches to creating supportive learning environments for all students and to building their knowledge and confidence in using mathematics This third edition has been updated throughout and includes a new chapter on numeracy Evidence based uses of digital technologies to support learning and teaching are included in every chapter With practical strategies that can be implemented in the classroom this book is an invaluable resource for pre service and early career primary and middle years mathematics teachers

Catalog State Teachers College at Bridgewater (Mass.),1919 Teaching Statistics in School Mathematics-Challenges for Teaching and Teacher Education Carmen Batanero,Gail Burrill,Chris Reading,2011-07-31 Teaching Statistics in School Mathematics Challenges for Teaching and Teacher Education results from the Joint ICMI IASE Study Teaching Statistics in School Mathematics Challenges for Teaching and Teacher Education Oriented to analyse the teaching of statistics in school and to recommend improvements in the training of mathematics teachers to encourage success in preparing statistically literate students the volume provides a picture of the current situation in both the teaching of school statistics and the pre service education of mathematics teachers A primary goal of Teaching Statistics in School Mathematics Challenges for Teaching and Teacher Education is to describe the essential elements of statistics teacher s professional knowledge and their learning experiences Moreover a research agenda that invites new research while building from current knowledge is developed Recommendations about strategies and materials available to train prospective teachers in university and in service teachers who have not been adequately prepared are also accessible to the reader

Tasks in Primary Mathematics Teacher Education Barbara Clarke,Barbro Grevholm,Richard Millman,2008-11-17 Tasks in Primary Mathematics Teacher Education is intended to advance relevant research and innovative international practices in the preparation and professional development of mathematics teachers Emerging from discussion at the ICMI

study on teacher professional development this volume focused on primary and elementary teachers culls a richness that can only be found by gathering wisdom from varied experiences around the world The choice of tasks and the associated pedagogies is a key aspect of teaching and learning mathematics Arguing that what students learn is largely defined by the tasks they are given several major themes are presented One such major strand the form function and focus of tasks is discussed throughout several chapters offering analysis discussion of implementation and exemplars of a broader category of illustrative techniques for developing critical understanding

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