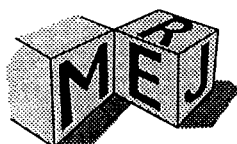


*Mathematics
Education
Research
Journal*

Volume 7, Number 2

October, 1995



The Journal

The *Mathematics Education Research Journal*, the official journal of the Mathematics Education Research Group of Australasia (MERGA), is an international journal which provides a forum for the publication of research on the teaching and learning of mathematics at all levels.

Submission of high quality papers in any area of mathematics education research is invited. The *Journal* aims to promote the exchange and dissemination of research across a wide range of approaches and methodologies. It is editorial policy that no preference will be given to any one particular methodology.

Reviews of research may also be submitted, but these should go beyond a mere reporting of a collection of individual studies and should provide a creative synthesis of work in the field of enquiry being reviewed.

A regular feature of the *Journal* will be the review of books and other publications.

Readers wishing to submit manuscripts for publication should refer to the notes on the inside of the back cover.

Subscriptions

A subscription to this journal is provided as part of MERGA membership which costs \$40 per year. Subscriptions are also welcomed from institutions. Enquiries regarding subscriptions and applications for membership should be directed to Dr Michael Mitchelmore, Treasurer MERGA, School of Education, Macquarie University, New South Wales 2109, Australia. (E-mail address: Mike.Mitchelmore@mq.edu.au).

Enquiries about back copies of the *Mathematics Education Research Journal*, and past Proceedings of MERGA Conferences, should be directed to Dr Michael Mitchelmore at the above address.

Editor: Nerida F. Ellerton, *Edith Cowan University*

Review Editor: Tony Herrington, *Edith Cowan University*

Editorial Panel:

Bill Atweh, *Queensland University of Technology*

Philip Clarkson, *Australian Catholic University*

Ken Clements, *The University of Newcastle*

Robert Hunting, *LaTrobe University*

Graham Jones, *Illinois State University*

Gilah Leder, *La Trobe University*

Frank Lester, Jr, *Indiana University*

John Malone, *Curtin University*

Ken Ruthven, *Cambridge University*

Dina Tirosh, *Tel Aviv University*

Jane Watson, *University of Tasmania*

Permission To Photocopy

Limited permission to photocopy material in this *Journal* is granted to classroom teachers, students, tertiary mathematics educators, and librarians, provided that the copies are intended for study purposes and have not been made for commercial purposes. Permission must be sought from MERGA for the inclusion of articles in books or readings, or if articles are copied for resale.

Mathematics Education Research Journal

Volume 7, Number 2, October, 1995

Editorial

Moral Dilemmas for Mathematics Education Researchers

Nerida F. Ellerton 91

Articles

Achievement in the Australian Mathematics Competition: A Question of Age?

Gilah C. Leder and Peter Taylor 95

Children Thinking Mathematically Beyond Authoritative Identities

Agnes Macmillan 111

Negotiation of Meaning in Mathematics Classrooms: A Study of Two Year 5 Classes

Sandra Frid and John Malone 132

An Investigation of the Methods Used by Australian Mathematics Teachers
to Keep Abreast with Current Curriculum Developments

Kevan V. Swinson 148

Coordination of Units and Understanding of Simple Fractions: Case Studies

Tad Watanabe 160

Book Review

A Review of *Language in the Mathematics Classroom: Talking, Representing, Recording*
by R. Griffiths and M. Clyne

Anne Chapman 176