

CONTENTS

EDITORIAL

LETTER TO THE EDITORS

- Research by student Mitja Drab, Mitja Drab.....1

REPORT ON MANSW ACTIVITIES

- Calculus and technology, Janet Krawitz.....3

POINT OF VIEW

- To stream or not to stream: Is that the question? Gaye Williams4

- The value of education at university, Chris Fraser7

REFLECTIONS ON MATHEMATICS EDUCATION

- My experiences as a learner, teacher and university lecturer, 1952–2002, Lindsay Grimison.....8

- Students as learners in a period of rapid change, Beth Southwell 13

REFLECTIONS ON INTERNATIONAL RESEARCH

- PISA from Australia’s perspective, Jan Lokan 15

- The meaning of PISA for teachers of mathematics, Jan de Lange 19

- Understanding mathematics classrooms internationally: The learner’s perspective study, David Clarke..... 22

REFLECTIONS ON MATHEMATICIANS

- Master codebreakers, Richard North 26

- Extract of an interview with Professor Bernhard Neumann (1909–2002)..... 28

REFLECTIONS ON ASSESSMENT

- Tests as performance assessments and marking schemes as rubrics, George Gadanidis..... 35

REFLECTIONS ON TEACHING IDEAS

- Factorizing algebraic expressions using factor trees, Ilhea Yoon..... 41

- Reading and interpreting graphs: A lesson for Years 7 or 8, Tal Greengard 43

THE MATHS EXCHANGE

- Fractions — Writing activity / assignment, Ann Thomas 51

- Roman numerals squaresaw, Michelle Longmire 52

- Percentage dominoes, Robert Yen 53

- The language and history of mathematics: Crosswords 5 and 6, Vince Hage 54