# Contents

## Part I  Surveying the Territory

1  The Challenge of Reporting Research to Inform the Creation of Inclusive Mathematics Learning Environments  
   Peter Sullivan  
   3

2  Large-Scale Test Data: Making the Invisible Visible  
   Gilah Leder and Sarah Lubienski  
   17

3  Impact of Geographical Location on Student Achievement: Unpacking the Complexity of Diversity  
   Debra Panizzon  
   41

4  Learners’ Preferred Mathematical Task Types: The Values Perspective  
   Anastasios (Tasos) Barkatsas and Wee Tiong Seah  
   63

5  Gender and Technology: A Case of Graphics Calculators in the Singaporean Mathematics Curriculum Context  
   Hazel Tan  
   81

6  Surveying the Public: Revisiting Mathematics and English Stereotypes  
   Helen Forgasz and Gilah Leder  
   103

7  Commentary for Section 1: Linking Research and Practice in School Mathematics  
   M. A. (Ken) Clements  
   123
Part II  Interrogating the Boundaries

8  Diversity, Inclusion and Equity in Mathematics Classrooms: From Individual Problems to Collective Possibility .......................... 129
Mike Askew

9  Ethics and the Challenges for Inclusive Mathematics Teaching .......... 147
Helen Forgasz, Jennifer Bleazby and Carly Sawatzki

10  Valuing Diversity in Mathematics Pedagogy Through the Volitional Nature and Alignment of Values ................................. 167
Wee Tiong Seah and Annica Andersson

11  Commentary For Section 2: Inclusive Practices in Mathematics Teaching—The Need for Noticing and Producing Relevant Differences ...................................................... 185
Konrad Krainer

Part III  Towards Inclusive Practices

12  (Dis)engagement and Exclusion in Mathematics Classrooms—Values, Labelling and Stereotyping ................................. 193
Alan J. Bishop and Penelope Kalogeropoulos

13  Capturing Diversity in the Classroom: Uncovering Patterns of Difficulty with Simple Addition .............................................. 219
Sarah Hopkins and Celéste de Villiers

14  Maximising Opportunities in Mathematics for All Students: Addressing Within-School and Within-Class Differences .......... 239
Peter Sullivan

15  Commentary for Section 3: From Diversity to Practices: Addressing, Redressing and Taking Action .............................. 255
Laurinda Brown

Index ................................................................. 261