

Contents

<i>List of contributors</i>	vii
Section 1 Introduction	1
1 Language in mathematical education: An introduction <i>Kevin Durkin</i>	3
2 Communicating mathematically <i>David Pimm</i>	17
Section 2 Language and early experiences of number	25
3 Children's early counting: Saying the number-word sequence, counting objects, and understanding cardinality <i>Karen C. Fuson</i>	27
4 The language of testing <i>Alyson Davis</i>	40
5 The same number <i>Richard Cowan</i>	48
6 Children's production and comprehension of written numerical representations <i>Anne Sinclair</i>	59
Section 3 Language and meanings in mathematical education	69
7 Lexical ambiguity in mathematical contexts <i>Kevin Durkin and Beatrice Shire</i>	71
8 The language of fractions <i>Daphne Kerslake</i>	85
9 The language of multiplication and division <i>Julie Anghileri</i>	95

10	Mixing metaphor and mathematics in the secondary classroom <i>Rita Nolder</i>	105
Section 4 Word problems		115
11	Some factors influencing the solution of addition and subtraction word problems <i>Erik De Corte and Lieven Verschaffel</i>	117
12	Order of mention <i>vs</i> order of events as determining factors in additive word problems: A developmental approach <i>Eva Teubal and Pearla Nesher</i>	131
Section 5 Discussion		141
13	Peer discussion in the context of mathematical problem solving <i>Susan Pirie</i>	143
14	Children talking in computer environments: New insights into the role of discussion in mathematics learning <i>Celia Hoyles, Rosamund Sutherland and Lulu Healy</i>	162
Section 6 Language, mathematics and disability		177
15	Mathematics and the deaf child <i>Jeffrey Barham and Alan Bishop</i>	179
16	Mathematics and dyslexia <i>Michael Thomson</i>	188
17	Teaching maths to young children with language disorders <i>Chris Donlan and Ella Hutt</i>	198
Section 7 Cross-linguistic issues		209
18	Chinese-based regular and European irregular systems of number words: The disadvantages for English-speaking children <i>Karen C. Fuson and Youngshim Kwon</i>	211
19	Learning to count in Japanese <i>Hajime Yoshida and Kazuhiro Kuriyama</i>	227
20	Mathematics in a multilingual society <i>Philip C. Clarkson</i>	237
21	Number experience and performance in Australian Aboriginal and Western children <i>Judith Kearins</i>	247
<i>Bibliography</i>		256
<i>Name index</i>		272
<i>Subject index</i>		276