Contents

| | Preface | page 7 |
|---------------|--|--------|
| | PART 1. PRIMARY MATHEMATICS TODAY | |
| I | An outline of the project | 11 |
| \mathbf{II} | Changes in primary mathematics | 14 |
| | Changes in method | 14 |
| | Changes in content | 15 |
| | Children's attitudes | 17 |
| III | The survey | 18 |
| | Sampling | 18 |
| | The headteachers' questionnaire | 19 |
| | The classteachers' questionnaire | 22 |
| IV | The content of primary mathematics | 33 |
| V | Mathematical topics: teachers' rating and children | 's |
| | performance | 36 |
| | Topic rating | 36 |
| | Children's performance | 38 |
| | Conclusions | 41 |
| VI | Children and mathematics apparatus | 42 |
| - | The apparatus survey | 43 |
| | Results | 43 |
| | Conclusions | 49 |
| ΛΙΙ | Strengths, weaknesses and the way ahead | 51 |
| | Reservations about primary mathematics | 51 |
| | The strengths of primary mathematics | 55 |
| | Unsatisfied needs | 56 |
| | Conclusions | 57 |

CONTENTS

| | Ref | erences | 59 |
|------|-----|---|-------------|
| | | ner sources | 62 |
| | PAI | RT 2. MATHEMATICS QUESTIONS | |
| VIII | Th | e project's mathematics tests: questions and results | 67 |
| | | estions 1–91 | 67 |
| | | en questions, 92–9 | 12 0 |
| | | estions not used in the survey | 131 |
| | Ap | PENDICES | |
| | A | Questionnaires to teachers | 137 |
| | В | Mathematics questions: topic classification | 152 |
| | C | Mathematics questions: structure of test papers and summary of findings | 155 |
| | D | Observation checklist used in the project's apparatus survey | 166 |
| | Ac | knowledgements | 167 |