

# CONTENTS

PREFACE . . . . .	v
1. INTRODUCTION . . . . .	1
Foster E. Grossnickle, <i>Jersey City State College, Jersey City, New Jersey</i>	
2. ARITHMETIC IN TODAY'S CULTURE . . . . .	10
Everett T. Welmers, <i>Bell Aircraft Corporation, Buffalo, New York</i>	
3. STRUCTURING ARITHMETIC . . . . .	33
H. Van Engen, <i>University of Wisconsin, Madison, Wisconsin</i>	
E. Glenadine Gibb, <i>Iowa State Teachers College, Cedar Falls, Iowa</i>	
4. GUIDING THE LEARNER TO DISCOVER AND GENERALIZE . . . . .	62
John R. Clark, <i>New Hope, Pennsylvania</i>	
5. ARITHMETIC IN KINDERGARTEN AND GRADES 1 AND 2 . . . . .	94
Herbert F. Spitzer, <i>University of Iowa, Iowa City, Iowa</i>	
6. INDIVIDUAL DIFFERENCES . . . . .	121
R. Stewart Jones, <i>University of Illinois, Urbana, Illinois</i>	
Robert E. Pingry, <i>University of Illinois, Urbana, Illinois</i>	
7. GUIDANCE AND COUNSELING . . . . .	149
Irene Sauble, <i>Detroit Public Schools, Detroit, Michigan</i>	
C. Louis Thiele, <i>St. Helena, California</i>	
8. MENTAL HYGIENE AND ARITHMETIC . . . . .	179
John W. Dickey, <i>Newark State College, Union, New Jersey</i>	
Edna B. Taylor, M.D., <i>Maplewood, New Jersey</i>	
9. READING IN ARITHMETIC . . . . .	202
Peter L. Spencer, <i>Los Angeles State College, Los Angeles, California</i>	
David H. Russell, <i>University of California, Berkeley, California</i>	
10. INSTRUCTIONAL MATERIALS . . . . .	224
Clarence Ethel Hardgrove, <i>Northern Illinois University, DeKalb, Illinois</i>	
Ben A. Sueltz, <i>State University Teachers College, Cortland, New York</i>	

11. DEFINITIONS IN ARITHMETIC.....	249
Lee E. Boyer, <i>Department of Public Instruction, Harrisburg, Pennsylvania</i>	
Charles Brumfiel, <i>Ball State Teachers College, Muncie, Indiana</i>	
William Higgins, <i>Ball State Teachers College, Muncie, Indiana</i>	
12. MODERN MATHEMATICS AND SCHOOL ARITHMETIC.....	270
Robert L. Swain, <i>Rutgers University, New Brunswick, New Jersey</i>	
13. BACKGROUND MATHEMATICS FOR ELEMENTARY TEACHERS.....	296
Arden K. Ruddell, <i>University of California, Riverside, California</i>	
Wilbur Dutton, <i>University of California, Los Angeles, California</i>	
John Reckzeh, <i>Jersey City State College, Jersey City, New Jersey</i>	
14. SELECTED ANNOTATED BIBLIOGRAPHY.....	320
William L. Schaaf, <i>Brooklyn College, Brooklyn, New York</i>	