

CONTENTS

INTRODUCTION	9
1 The Paradox of the Unexpected Hanging	11
2 Knots and Borromean Rings	24
3 The Transcendental Number e	34
4 Geometric Dissections	43
5 Scarne on Gambling	52
6 The Church of the Fourth Dimension	65
7 Eight Problems	76
8 A Matchbox Game-Learning Machine	90
9 Spirals	103
10 Rotations and Reflections	114
11 Peg Solitaire	122
12 Flatlands	136
13 Chicago Magic Convention	147
14 Tests of Divisibility	160
15 Nine Problems	170
16 The Eight Queens and Other Chessboard Diversions	186
17 A Loop of String	198
18 Curves of Constant Width	212
19 Rep-Tiles: Replicating Figures on the Plane	222
20 Thirty-Seven Catch Questions	234
BIBLIOGRAPHY	245