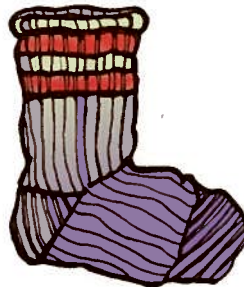
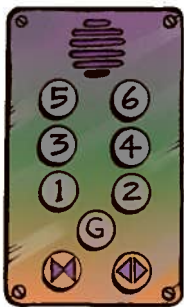
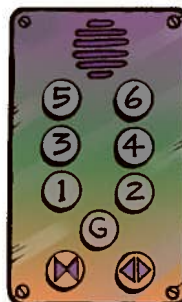




PROBABILITY SIMULATIONS



Mary Jean Winter
Ronald J. Carlson



CD-ROM with Calculator Programs • Blackline Activity Masters

KEY CURRICULUM PRESS

PROBABILITY SIMULATIONS

Mary Jean Winter and Ronald J. Carlson

Graphing calculators are powerful tools for teaching and learning the concepts of probability. With calculators, your students can quickly run numerous trials in a simulation without the tedium that can come from flipping a coin or rolling dice many times. Through calculator simulations, students more easily understand how the observed relative frequency for a large number of trials approaches the theoretical probability, and they begin to understand variability in sampling.

Use the investigations in *Probability Simulations* to develop and reinforce the basic concepts of probability. The activities can be used to enrich any mathematics curriculum or to further the ideas covered in standard textbooks. They are ideal for extended class periods.



Any graphing calculator with a random-number generator can be used to complete the thirteen probability simulations. Calculator programs for the activities can be downloaded from the accompanying CD onto TI-82, TI-83, or Casio CFX 9970, 9870, or 9850 graphing calculators, entered by hand from the program listings, or adapted to other calculators following the program annotations.

As a teacher acquainted with the basic concepts of probability, you can use this book to create a rich and rewarding classroom experience.



Key Curriculum Press
Innovators in Mathematics Education

ISBN 1-55953-401-X



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Probability Concepts in the Investigations	iv
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INTRODUCTION

Teaching a Probability Investigation	v
Quick-Start Examples	vi
Demonstrating Central Tendency	xv
Generating Random Numbers	xvi

INVESTIGATIONS

The Elevator	1
Target Practice	9
Car Games	19
Trivia Quiz	28
The Shoot-Out	37
Choosing a Captain	44
Red Stripes, Blue Stripes	52
Lie-Detector Test	60
Heads in a Row	70
Order of Play	78
The Guard and the Thief	87
Calculator Mix-up	97
Aliens	108

APPENDIX A

Calculator Programs for TI-82 and TI-83 Graphing Calculators	119
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APPENDIX B

Calculator Programs for Casio Graphing Calculators	132
---	-----