



Volume 29, Number 1

March 1991

# PROBLEM Solving



## CONTENTS

|                                                                                                        |    |                                                    |
|--------------------------------------------------------------------------------------------------------|----|----------------------------------------------------|
| Editorial                                                                                              | 2  | <i>A. Craig Loewen and<br/>John B. Percevault</i>  |
| Computer Programming in the Schools:<br>Emphasizing Structure—An Example<br>Using “Inebriated Turtles” | 3  | <i>J. Dale Burnett</i>                             |
| Problem Solving: Some Points to<br>Consider                                                            | 15 | <i>Irvin K. Burbank</i>                            |
| Canadian Mortgage Payments                                                                             | 19 | <i>Dennis Connolly</i>                             |
| Another Proof of Heron’s Formula for<br>the Area of a Triangle                                         | 24 | <i>Gurcharan Singh Bhalla</i>                      |
| A Circular Graphing Activity: Digital<br>Roots of Powers of Natural Numbers                            | 26 | <i>David R. Duncan and<br/>Bonnie H. Litwiller</i> |
| <br><b>IDEAS</b>                                                                                       |    |                                                    |
| Include Fractions in the Elementary<br>School Curriculum                                               | 31 | <i>John B. Percevault</i>                          |
| M & M & Ms: An Alternative Context<br>for Teaching Mean, Median and Mode                               | 36 | <i>A. Craig Loewen</i>                             |

---

*delta-K* is published by The Alberta Teachers’ Association (ATA) for the Mathematics Council (MCATA). EDITORS: A. Craig Loewen, Faculty of Education, University of Lethbridge, 4401 University Drive, Lethbridge T1K 3M4, and John B. Percevault, 2510 22 Avenue S, Lethbridge T1K 1J5. EDITORIAL AND PRODUCTION SERVICES: Central Word Services staff, ATA. Copyright © 1991 by The Alberta Teachers’ Association, 11010 142 Street, Edmonton, Alberta T5N 2R1. Permission to use or to reproduce any part of this publication for classroom purposes, except for articles published with permission of the author and noted as “not for reproduction,” is hereby granted. Opinions expressed herein are not necessarily those of the MCATA or the ATA. Please address all correspondence regarding this publication to the editors. *delta-K* is indexed in the Canadian Education Index. ISSN 0319-8367.