# A Page of Problems 

## A. Craig Loewen

## High School

Herb the Hobo is $3 / 7$ of the way across a railroad bridge when he hears a train whistle behind him. If he runs forward, he can jump off the bridge just in front of the train. If he turns around and runs back toward the train,
 he can also jump off the bridge just in front of the train. If the train is travelling at $35 \mathrm{~km} / \mathrm{h}$, how fast must Herb run?

Source: C. Kantecki and L. E. Yunker, "Problem Solving for the High School Mathematics Student," in Problem Solving in the Mathematics Classroom, Math Monograph No. 7 (Edmonton, Alta.: MCATA, 1982), edited by S. Rachlin, 49-60.

## Junior High

Substitute a different digit for each letter to make the following statement true:

MATH


FUN
How many solutions can you find? How many solutions are there?

## Elementary

How many ways can you make up $55 \phi$ using only nickels and dimes?

How many ways can you do so if you can use quarters, too?


## High School

In the following decimal, how many 2 s are there before the 100 th 3 ?


Source: M. A. Sobel and E. M. Maletsky, Teaching Mathematics: A Sourcebook of Aids, Activities, and Strategies, 2nd ed. (Englewood Cliffs, N.J.: Prentice Hall, 1988).

[^0]Please submit problems for future issues to loewen@uleth.ca.


[^0]:    A. Craig Loewen, editor of delta-K, is an associate professor of mathematics education and assistant dean of Student Program Services in the Faculty of Education at the University of Lethbridge in Lethbridge, Alberta.

