## This week's winner is: Maggie (Ming Kit) Lam

Contact Lin Hammill (Surrey Fir 348) or Judy Bicep (Richmond,3335) for your prize or email MathProblem@kpu.ca.

## Also submitting correct solutions to problem 238 were:

## Victor Blanchard, Peter Stevens, and Suzanne Pearce

## Problem 238 solution:

Since one of Ethan's statements must be true, the thief is either Diane or Alek.

Check the other statements for a contradiction:

| Statement | if Aleck is <br> the thief | if Diane is <br> the thief |
| :--- | :--- | :--- |
| Alek 1 | F | F |
| Alek 2 | T | T |
| Barbara 1 | T | T |
| Barbara 2 | T | F |
| Cameron 1 | F | F |
| Cameron 2 | T | T |
| Diane 1 | F | F |
| Diane 2 | F | T |
| Ethan 1 | F | T |
| Ethan 2 | T | F |

We see that the thief must be Diane, as the assumption that Alek was the thief does not satisfy the criteria that each person made one true and one false statement.

