## Mathematics Problem of the Week (246)

## This week's winner is:

## Tom Ouellette

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 246 were: <br> Anthony Roberts, Ming Kit Lam, Matthew Potma, David Luna, and Suzanne Pearce

## Problem 246 solution:

Let D be the distance (in km ) to the store.
Then the time it took to get to the store is $\mathrm{D} / 50$ hours and the time it took to return is $\mathrm{D} / 60$ hours.
Her average speed is given by $\frac{\text { distance travelled }}{\text { time taken }}$.
Thus:

$$
\frac{2 D}{\frac{D}{50}+\frac{D}{60}}=\frac{2}{\frac{1}{50}+\frac{1}{60}}=\frac{2}{\frac{11}{300}}=\frac{600}{11}=54 . \overline{54} .
$$

The average speed is approximately 55.55 kph .

