



## Problem of the Week

### Problem B

### Sap to Syrup

In order to make sap into maple syrup, the sap must be boiled down to  $\frac{1}{40}$  of its original volume. (This means that 40 L of sap will make only 1 L of maple syrup.)

- a) How much maple syrup would you get from boiling down 160 L of sap?
- b) In a previous Problem of the Week, we found that 403.2 L of sap can be collected from 28 trees. Approximately how many litres of maple syrup would result from this amount of sap?



- c) You have four 1 L bottles and six 500 mL bottles for the maple syrup from part b). If you fill those bottles first and then put the remaining maple syrup into 125 mL bottles, how many 125 mL bottles can you completely fill?

