

# Maple Math II

Boiling away almost all the water from the sap to make maple syrup requires a big fire for a long time. This means lots of fuel. Two pickup trucks full of firewood will boil enough sap to make about 25 gallons of maple syrup. In order to produce 100 gallons of maple syrup, a maple farmer must burn 8 truck loads of firewood, which is enough wood to heat an average home for a whole winter. If the maple producer boils his sap with an oil burner, it would require about 400 gallons of oil to make a 100 gallons of maple syrup.

Using this information, answer the following questions:

1. Mike Maplefarmer produced 1000 gallons of syrup last year.  
How much wood did he burn? \_\_\_\_\_  
If he was burning fuel oil, how much would he use? \_\_\_\_\_
  
2. Sally Syrupmaker helped stack 12 pickup truck loads of firewood.  
How much syrup would this make? \_\_\_\_\_  
If she wanted to make 500 gallons of maple syrup, how many loads of wood would she need? \_\_\_\_\_
  
3. Ivan Boilsapski, a very hard working maple sugarmaker, tapped over 6000 trees last spring. When he was all finished in late April, he had made just over 2000 gallons of delicious maple syrup.  
How much wood did he end up burning during the six week maple season? \_\_\_\_\_  
How many of his neighbors houses could have kept warm all winter using that same amount of wood? \_\_\_\_\_

