

Name: _____

Date: _____

SAP TO SYRUP PREDICTIONS

What is the Rule of 86?

$$86 \div \text{Sugar} = \# \text{ L Syrup produced}$$

How do you use it?

$$86 \div \text{Sugar}$$

Use the Rule of 86 to calculate the amount of syrup you would expect to produce from 1000L of sap with the following sugar contents.

Sugar Content	Volume of Syrup Expected **Show your work**
1%	$86 \div 1 = 86$ $1000 \div 86 = 11.6 \approx 12$
2.5%	$86 \div 2.5 = 34.4$ $1000 \div 34.4 = 29$ 29
3%	$86 \div 3 = 28.67$ $1000 \div 28.67 = 34.9$ 35
4%	$86 \div 4 = 21.5$ $1000 \div 21.5 = 46.5$ 47
5%	$86 \div 5 = 17.2$ $1000 \div 17.2 = 58.1$ 58
6%	$86 \div 6 = 14.3$ $1000 \div 14.3 = 69.8$ 70

What is the 40:1 Rule?

$$40 \text{ L sap} = 1 \text{ L Syrup}$$

Use the 40:1 Rule to calculate the amount of syrup you would expect to produce from 1000L of sap. **Show your work**

$$1000 \div 40 = 25 \text{ L}$$