

Learner 6: PC 1.1 and 1.2

Learner 6: Meets Requirements
Intended for teacher use only

Orange Marmalade

- Ingredients:**
- 600g (approx. 6-8) small oranges, halved
 - 1 lemon, juiced
 - 1.4 l water
 - 1.1kg caster sugar



You have been given some oranges and want to make marmalade. You will need to change the recipe to suit the amount of oranges you have .

1. Estimate the weight of the oranges Take the measurements you need to work out how much sugar and water will be required for the recipe above given the amount of oranges you have. 5

Estimation:

500 grams 8

Actual measurement:

520 grams 1

I took this measurement using....

digital scales

Show your calculations here:

$$520 \div 600 = 0.86 \quad \text{③}$$

$$1.4 \text{ L water} = 1400 \text{ mL} \times 0.86 \quad \text{⑤}$$

$$= 1204 \text{ mL or } 1.2 \text{ L water} \quad \text{⑨}$$

$$1.1 \text{ kg sugar} = 1100 \text{ gram} \times 0.86 = 946 \text{g sugar.} \quad \text{⑤}$$

⑨

I observed the learner taking a measurement of weight using appropriate measuring devices and to an appropriate degree of accuracy.

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2. How many jars of the same size will you need if your recipe makes about 1.4 litres of marmalade? (6)

Estimate how much each jar would hold. Then take measurements and make calculations to answer the problem.

I think the jar will hold

about 400 mL (8)

Actual Measurement:

350 mL (2)

I took this measurement

I poured water into the jar then into a measuring jug

Show your working here:

$$1.4 \text{ L} = 1400 \text{ mL} \quad (9)$$

$$1400 \div 350 = 4 \quad (4)$$

So 4 jars would be needed for 1.4 L of Marmalade. (6)

(7)

I observed the learner taking a measurement of *capacity* using appropriate measuring devices and to an appropriate degree of accuracy.

16/11/14